

Carprieve® (carprofen) Injection

The Industry's First FDA-Approved Generic Equivalent To Rimadyl. (carprofen) Injectable

- Same active ingredient, formulation and dosing regimen as Rimadyl[®] (carprofen) Injectable
- For relief of pain and inflammation associated with osteoarthritis (OA)
- For control of postoperative pain associated with soft tissue and orthopedic surgeries in dogs
- Each mL of injectable solution contains 50 mg of carprofen

ECONOMICAL ALTERNATIVE

- Carprieve® Injection is available in both 20 mL and exclusive 50 mL bottles
- Compare Carprieve Injection 50 mL versus Rimadyl 20 mL pricing for Significant Savings per treatment!

Carprieve Injection Dosing Chart

Dog Weight (lbs.)	Dose Rate (mL of Solution)
5 lbs.	0.2 mL
10 lbs.	0.4 mL
15 lbs.	0.6 mL
20 lbs.	0.8 mL
25 lbs.	1.0 mL
30 lbs.	1.2 mL
35 lbs.	1.4 mL
40 lbs.	1.6 mL
45 lbs.	1.8 mL
50 lbs.	2.0 mL

Contact Your Distributor Or Call Norbrook Today at 888-705-0408 For More Information

Observe label directions. For subcutaneous use in dogs only. Do not use in cats. As with other NSAIDs, rare but serious side effects involving the digestive system, kidneys or liver may occur. Such signs may be serious, resulting in hospitalization or even death. Regular monitoring is required for pets on medication. Pet owners should be advised to discontinue use if side effects occur and contact their veterinarian. See product labeling for full product information.





NADA 200-520, Approved by FDA

50 mg/mL Sterile Injectable Solution carprofen) Carprieve® Injection

For subcutaneous use in dogs only Non-steroidal anti-inflammatory drug

DESCRIPTION: Carpieve³⁰ injection is a starile solution containing carporation a non-secondial anti-inflammatory drug (NASID) of the proprioric actic class that rolledges inpurioris negatives, and tecoporate. Carporders is the non-proprietary designation for designation actic than the control of the con **CAUTION:** Federal law restricts this drug to use by or on the order of a licensed veterinarian.

The mechanism of action of carprofen, like that of other works of the sessoriate of with the inhibition of pycloxygenase activity. Iwo unique cycloxygenase activity, Iwo unique cycloxygenase, CXX-1, synthesizes prostaglandins necessary for normal gastrointestinal and renal function. The individual cycloxygenase, CXX-2, generates prostaglandins involved in inhibition of CXX-1 synthesizes prostaglandins involved in inhibition of CXX-2 provides and renal function. The individual cycloxygenase, CXX-2, generates prostaglandins and renal function with the provides and renal function of CXX-2 provides and renal function of CXX-2 provides and renal function with the provides of several prostaglandins in CXX-1. Clinical relevance of these data has not been shown. Caprofer has also been shown to them shown. Caprofer has also been shown to inhibit the release of several prostaglandins in CXX-1 clinical relevance of the provides and renal function. The mandot synowial cells, indicating inhibition of acute (PMN system) and chronic (synowial cell in a polymorphomoteclar relavory cell systems; rat polymorphomoteclar relavory cell systems; rat polymorphomoteclar relavory cell systems; rat polymorphomoteclar relavory cell systems.

Based upon comparison with data obtained from intravenous administration, carprofient is raighly and freatly completely absorbed funce than 30% beloavailable) when administration of 1, 5, and 25 mg/kg and the same concentrations are achieved in 1-3 and service of the same concentrations are achieved in 1-3 and service of the same concentration of 1, 5, and 25 mg/kg to dogs. The mean terminal half-life of carprofient is approximately 8 hours (range 4,5-9.8 hours) after single oral doses varying from 1-35 mg/kg of body revenues to 100 mg single intravenous bolus dose, the mean elimination half-life was approximately 1.17 hours in the dog. Carprofien is more than 99% bound to plasma protein and exhibits a very small volume of distribution. Several studies have demonstrated that carprofen tas modulatory effects on both humoral and cellular immune responses.⁵² Data also indicate that carprofen inhibits the production of esteoclast-activating factor (0AF, DRE, and PGE, by its inhibitory effects on prostaglandin biosynthesis.¹

Each mL of Carprieve Injection contains 50.0 mg carprofers, 30.0 mg argiline, 88.5 mg glyvocitolic actio, 189.0 mg leathin, 10.0 mg benzyl alcohol, 61.7 mg sodium hydroxide, with additional sodium hydroxide and hydroxide race of the control of the carbon and adjust pH, and water for injection.

CLINICAL PHARMACOLOGY: Carprofen is a non-narcotic, non-steroidal anti-inflammatory agent with characteristic analgesic and antipyretic activity approximately equipotent to indomethacin in animal models.¹

Carprofen is an NSAID, and as with others in that class; adverse reactions may occur with its use. It has a support to the class in the

Carprieve Injection is not recommended for use in

subcutaneous administration results in a slower rate of drug input las reflected by mean peak observed concentrations) but comparable total drug absorption within a 12 hour dosing interval las reflected by are aunder the curve from hours zero to 12 postdose).

Carprofen is eliminated in the dog primerily by bidransformation in the liver followed by rapid excretion of the resulting metabolities (the extension and the enter glucuronide of carprofen and the ether glucuronides of Periodic metabolities, 7-hydroxy carprofen and 8-hydroxy carprofen) in the feces (70-90%), and urine 10-20%. Some enterohepatic circulation of the drug is observed.

CONTRAINDICATIONS: Carprofen should not be used in dogs exhibiting previous hypersensitivity to carprofen. INDICATIONS: Carprieve Injection is indicated for the relief of pain and inflammation associated with osteoarthritis and for the control of postoperative pain associated with soft tissue and orthopedic surgeries in dogs.

All dogs should undergo a thorough history and physical examination before initiation of WSAID therapy. Appropriate laboratory tests to establish erandogreal and earnet hockman all beautiful prior to, and to be administration of any NSAID should be administration of a property of the property of t Keep out of reach of children. Not for human use. Consult a physician in cases of accidental human exposure. For use in dogs only. Do not use in cats.

PRECAUTIONS: As a class, cyclooxygenase inhibitory NSAID smay be associated with gastronication, lend and hepatic toxicity. Effects the gastronication, lend and hepatic toxicity. Effects the gastronication, lend and hepatic toxicity. Effects the gastronication and mishibition of the enzymen the cyclooxygenase which is a suponsible hid nine and the cyclooxygenase which is a suponsible hid nine activity in proceeding the suponsible hid nine cause inflammation they may also inhibit those as a considered in which maintain normal hid normal hid normal in the cause inflammation they may also inhibit those and proceeding the substitution of the cause inflammation they may also inhibit those in patients with underlying real supprise or pre-existing disease. If a supprise of the paper in clinical signs, a failerts with hease of the paper in the clinical signs. Failerts with the supprise considered to reduce the processing of the paper in the considered to reduce the processing signs in the considered for reduce the processing signs in the processing signs in the considered for reduce the processing signs in the considered for reduce the processing signs in the processing signs in the signs in the considered for reduce the processing signs in the processing signs in the processing signs in the signs i

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INFORMATION FOR DOG OWNERS: Carprieve in Injection, like other drugs of its class; is not free advised in the cactions. Owners should be advised of the potential for adverse reactions and the informed of the clinical signs associated with drug innoterance. Adverse reactions may include the informed of the clinical signs associated with or tarry stools, increased wrater consumption, increased unlandon, pale guars due to anemia, validous grants, sist no rivitie of the eye due to the properties of the eye due to behavioral changes. Serious adverse reactions associated with this drug class can occur without warning and in rare situations result in death (see Adverse Reactions). Owners should be advised to discontinue Carprieve injection immediately it signs of intolerance are observed. The vast majority of patients with drug related adverse reactions have recovered when the signs are recognized, the drug is withdrawn and weterinary are recognized, the drug is withdrawn and vestimated adverse reactions have recovered when the signs are recognized, the drug is without product of the drug is without of collections and the death of the drug is without the drug is without the grant of the grant of the drug is w

ADVERSE REACTIONS: During investigational studies for the caplet formulation, no clinically significant adverser eactions were reported. Some clinical signs were observed during field studies (n=29) which were similar for caprotien—and placebo-reated dogs, incidences of the following were observed in both groups: vomiting (4%), changes in appetite (3%), lethargia changes (1%), and constipation (1.3%), behavioral changes (1%), and constipation (1.3%), the product vehicle served as control.

There were no serious adverse events reported during clinical field studies with once daily oral administration of 2 mg/lb. The following categories of abnormal health observations were reported. The product vehicle served as control. Percentage of Dogs with Abnormal Health
Observations Reported in Clinical Field Study

(2 mg/	z mg/ib once daily)		
Observation	carprofen caplet (n=129)	Placebo (n=132)	
nappetence	1.6	1.5	
/omiting	3.1	3.8	
Diarrhea/Soft stool	3.1	4.5	
Behavior change	0.8	0.8	
Dermatitis	0.8	8.0	
oU/PD	0.8	:	
SAP increase	7.8	8.3	
ALT increase	5.4	4.5	
AST increase	2.3	8.0	
3UN increase	3.1	1.5	
Bilirubinuria	16.3	12.1	
(etonuria	14.7	9.1	

Clinical pathology parameters issed represent reports of increases from pre-treatment values; the use of clinical ludgments necessary to determine clinical relevance (refers also to table below). There were no sarous advers experts reported to during clinical field studies for the injectable formulation. The following categories of abnormal health observations were reported. Saline served in a space-bo control.

(2 mg/l	(2 mg/lb once daily)		Fan
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N increase	3.1	1.5	S C
rubinuria	16.3	12.1	TIE
tonuria	14.7	9.1	an

ntage of Dogs with Abnormal Health ions Reported in Clinical Field Studies with the Injectable

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Observation*	carprofen (n=168)	Placebo (n=163)	
Vomiting	10.1	9.2	
Diarrhea/Soft stool	2.4	3.7	
Dermatitis	0.6	1.2	
Dysrhythmia	0.6	0.6	
Swelling	0	1.2	
Dehiscence	1.2	0	

experienced more than one

roval Experience:
not all adverse reactions are reported, the
ladverse reactions are based on voluntary
roval adverse drug experience reporting,
gories of adverse reactions are listed by

Gastrointestinal: Vomiting, diarrhea, constipation, inappetence, melena, hematemesis, gastrointestinal ulceration, gastrointestinal bleeding, pancreatitis.

Hepatic: Inappetence, vomiting, jaundice, acute hepatic xixoloty, hepatic enzyme elevation, abnormal hepatic xixoloty, hepatic enzyme elevation, bilirubinuria, liver function test(s), hyperbilirubinemia, bilirubinuria, hypoabluminemia. Approximately one-fourth of hepatic reports were in Labrador Retrievers.

Urinary: Hematuria, polyuria, polydipsia, urinary incombinence, urinary tract infection, azotemia, acute renal failure, tubular abnormalities including acute tubular necrosis, renal tubular accidosis, glucosuria. Neurologic: Ataxia, paresis, paralysis, seizures, vestibular signs, disorientation.

Behavioral: Sedation, lethargy, hyperactivity, restlessness, aggressiveness.

Hematologic: Immune-mediated hemolytic anemia, immune-mediated thrombocytopenia, blood loss anemia, epistaxis.

Dermatologic: Prurius, increased shedding, alopeia, pyteraumatic most dermatitis (hot spots.), alopeia, pyteraumatic most dermatitis (hot spots.), alopeia, pyteraumatic most dermatitis, ventral erchymatis. In rare situations, injection side control formation, and granulomas have been reported with the injectable formulation.

Immunologic or hypersensitivity: Facial swelling, hives, erythema.

In rare situations, death has been associated with some of the adverse reactions listed above. To report a suspected adverse reaction call Norbrook at 1-866-591-5777.

DOSAGE AND ADMINISTRATION: Carefully consider the potential benefits and risks of carprofein and other treatment opions before declining to use Carpriew injection. Use the lowest affective dose for the shortest duration consistentivel individual response. If the recommended dosage for subcutaneous administration to dospi is 2 mg/ll (44 mg/lg) of body weight daily. The total daily dose may be administrated as the body weight once daily or divided and administrated as I mg/lb (22 mg/lg) those daily, dose once daily or divided and administrated as I mg/lb (22 mg/lg) those daily, do potential of the procedure.

Separate placebo-controlled, masked, multicenter field studies confirmed the anti-inflammatory and analysis effectiveness of carporetic capiets when dosed at 2 mg/b once daily or when divided and administered at 1 mg/b twice allaly. In these two field studies, dogs diagnosed with osteoarthritis showed statistically syndrican two retail improvement based on hameness evaluations by the veterinarian and owner observations when administered caprorien at labeled doses. EFFECTIVENESS. Confirmation of the effectiveness of carprofes for the useful of plan and of inflammation associated with esteenishing and for the control of postuparative plan associated with soft its use and orthopadic surgeries uses glomoustrated in placebocontrolled ansked studies examining the articular mattery and analysis of flactiveness of carprofess capiets and injectable in various breeds of dogs.

Norbrook >

Two of 8 dogs receiving 10 mg/lb orally twice daily (10 times the recommended tool daily dose) for 14 days exhibited typoslbuminema. The mean altowing the seal in the dogs receiving this dose was lower [2,38] (2) than each of 2 place bo control groups [2,38] and 2,35 g/dL, respectively). Three incidents of black or bloody stool were observed in dog five of 8 and 2,35 g/dL, respectively). Three incidents of black or bloody stool were observed in dog five of 8 and 2,35 g/dL, respectively). Three incidents of black or bloody stool were observed in dog five of 8 and 2,35 g/dL, respectively). Three incidents of black or bloody stool were observed in dog five of 8 and 2,35 g/dL, respectively). Three incidents of black or bloody stool were observed in dog five or bloody stool were observed in the five of the five of the five of the five or bloody stool were observed in the five of the five of the five or bloody stool were observed in the five of the five of the five or bloody stool were observed in the five of the five of the five or bloody stool were observed in the five of HOW SUPPLIED: Carprieve Injection is supplied in 20 mL and 50 mL, amber, glass, sterile, multi-dose vials

In separate safety studies lasting 13 and 52 weeks, respectively, dogs were administered orally up to the 14 mg/bldgs 1/5 mass the recommended total daily dose of 2 mg/bl of carporten. In both studies, the drug was well tolerated clinically by all of the entire studies, and the groups were seen in may of the treaded animals. In both studies, dogs or receiving the highest doses had average increases in security the highest doses had average increases in security. Fallonia aminotransferase (ALT) of approximately 20 IU.

difficial field studies were conducted with 549 dogs of different breeds at the recommended and idoses for 14 different breeds at the recommended and idoses for 14 different breeds at the recommended and idoses for 14 different breeds at the recommended and idoses for 15 different breeds and 52 dogs were included in a speak and study evaluating and proceeding. In which we have been and the participation of the study was contained to the study and study In the S2-week study, minor dermatologic changes of curred in does no each of the treatment groups but not in the control does. The changes were described as slight redires or resh and were described as slight redires or resh and were with described as slight redires or resh and were exists that these mid lesions were treatment or related, but no dose relationship was observed. Separa placebo-controlled, masked, multicentur field studies confirmed the effectiveness of carpoide in placebo for the control of postoperative pain when diseal at 2 mg/b once daily in various breeds of dogs. In these studies, dogs presented for ovariobyst rectom of crudies repair and sural surgeties were administened carporden preoperatively and for a maximum of 3 days, forth stusie or 4 days administened carporden studies to the control of the contr effectiveness for osteoarthritis after dorsoscapular subcuttaneous and oral administration should be similar, although there may be a slight delay in the onset of relief after subcutaneous injection.

ANIMAL SAFETY: Laboratory studies in unanesthetized dogs and clinical field studies have demonstrated that carporien is well tolerated in dogs after oral and subcutaneous administration.

In arget aimal safety studies, earprofe was a diministered outly to health Beegle dogs at 1.3, and 3 familiare red outly to health Beegle dogs at 1.3, and 3 familiare red outly to health Beegle dogs at 1.3, and 3 familiare site red mended of the safety o Clinical field studies were conducted on 331 dags under point of the studies and gery. Dags and the studies are gery. Dags and see a diministrated a raily disceptionery and the studies are a diministrated a raily disceptionery and the studies are a diministrated and the studies are a diministrated and the studies are a diministrated and the studies are added to the studies are added to the studies are added to a days. Soft tissue are added to the studies are studies and studies are studies and studies and studies are studies and studies and studies and studies are studies and studies and studies and studies and studies and studies are supported and studies. The most frequent short make the alth observation was comitting and was observed at approximately acquait and few in number of sea approximately acquait and few in number of sea approximately the same frequency in other and place both character administration were not clinically significant. If he mean post-treatment serum AL values were 8.4 III and 7.0 III sess than and place but a studies of adds streament serum AL values were 8.4 III and 7.0 III greater for odoss receiving carprofen and place both crespectively. The mean post-treatment and and place by a studies and place by a specific place. Swelling and warmth were associated with the imjection site after suboutaneous administration of carprofen injectable. These findings were not clinically significant. Long term use of the injectable has not been studied. **STORAGE:** Store under refrigeration at 36° to 46°F (2° to 8°C). Once broached, product may be stored at temperatures up to 77 °F (25 °C) for 28 days.

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course of therapy was repeated as needed at 2-week intervals in 244 dogs, some for as long as 5 years.