

## **SUMMARY OF PRODUCT CHARACTERISTICS**

### **1. NAME OF THE VETERINARY MEDICINAL PRODUCT**

Coxatab 100 mg chewable tablets for dogs

### **2. QUALITATIVE AND QUANTITATIVE COMPOSITION**

Each tablet contains:

Active substance:

Firocoxib                      100 mg

Excipients:

For the full list of excipients, see section 6.1.

### **3. PHARMACEUTICAL FORM**

Chewable tablet.

Off-white to light brown, speckled with brown spots, round and convex tablet with a cross-shaped break line on one side. The tablets can be divided into 2 or 4 equal parts.

### **4. CLINICAL PARTICULARS**

#### **4.1 Target species**

Dogs.

#### **4.2 Indications for use, specifying the target species**

For the relief of pain and inflammation associated with osteoarthritis in dogs.  
For the relief of post-operative pain and inflammation associated with soft-tissue, orthopaedic and dental surgery in dogs.

#### **4.3 Contraindications**

Do not use in cases of hypersensitivity to the active substance or to any of the excipients.  
Do not use in pregnant or lactating bitches.  
Do not use in animals less than 10 weeks of age or less than 3 kg body weight.  
Do not use in animals suffering from gastrointestinal bleeding, blood dyscrasia or haemorrhagic disorders.  
Do not use concomitantly with corticosteroids or other non-steroidal anti-inflammatory drugs (NSAIDs).

#### 4.4 Special warnings for each target species

None.

#### 4.5 Special precautions for use

##### Special precautions for use in animals

The recommended dose, see section 4.9, should not be exceeded.

Use in very young animals, or animals with suspected or confirmed impairment of renal, cardiac or hepatic function may involve additional risk. If such use cannot be avoided, those dogs require careful veterinary monitoring.

Avoid use in dehydrated, hypovolaemic or hypotensive animals, as there is a potential risk of increased renal toxicity. Concurrent administration of potentially nephrotoxic medicinal products should be avoided.

Use this veterinary medicinal product under strict veterinary monitoring where there is a risk of gastrointestinal bleeding, or if the animal previously displayed intolerance to NSAIDs. Renal and/or hepatic disorders have been reported in very rare cases in dogs administered the recommended treatment dose. It is possible that a proportion of such cases had sub-clinical renal or hepatic disease prior to the commencement of therapy. Therefore, appropriate laboratory testing to establish baseline renal or hepatic biochemistry parameters is recommended prior to and periodically during administration.

The treatment should be discontinued if any of these signs are observed: repeated diarrhoea, vomiting, faecal occult blood, sudden weight loss, anorexia, lethargy, degradation of renal or hepatic biochemistry parameters.

##### Special precautions to be taken by the person administering the veterinary medicinal product to animals

This product may be harmful following accidental ingestion. The target organs for toxicity in the repeat-dose toxicological studies were usually liver, brain and gastrointestinal tract.

In order to prevent children from accessing the product, tablets should be administered and stored out of their sight and reach. Halved or quartered tablets should be returned to the open blister pocket and inserted into the outer carton.

In the event of accidental ingestion of one or more tablets, seek medical advice immediately and show the package leaflet or the label to the doctor.

Laboratory studies in rats and rabbits have shown evidence that firocoxib has the potential to affect reproduction and to induce malformations in foetuses. Pregnant women or women who are intending to become pregnant should administer the product with caution.

Wash hands after use of the product.

Special precautions for the protection of the environment

Not applicable.

Other precautions

Not applicable

**4.6 Adverse reactions (frequency and seriousness)**

Dogs:

Uncommon (1 to 10 animals / 1,000 animals treated):	Vomiting <sup>1</sup> , Diarrhoea <sup>1</sup>
Rare (1 to 10 animals / 10,000 animals treated):	Nervous system disorder
Very rare (<1 animal / 10,000 animals treated, including isolated reports):	Hepatic disorder Renal disorder

<sup>1</sup>These reactions are generally of a transitory nature and are reversible when the treatment is stopped.

If adverse reactions like vomiting, repeated diarrhoea, faecal occult blood, sudden weight loss, anorexia, lethargy, degradation of renal or hepatic biochemistry parameters occur, use of the product should be stopped and the advice of a veterinarian should be sought. As with other NSAIDs, serious adverse effects can occur and, in very rare cases, may be fatal.

Reporting adverse events is important. It allows continuous safety monitoring of a veterinary medicinal product. Reports should be sent, preferably via a veterinarian, to either the marketing authorisation holder or its local representative or the national competent authority via the national reporting system. See also the last section of the package leaflet for contact details.

**4.7 Use during pregnancy, lactation or lay**

Do not use in pregnant or lactating bitches.

Laboratory studies in rabbits have shown evidence of maternotoxic and foetotoxic effects at dose rates approximating the recommended treatment dose for the dog.

**4.8 Interaction with other medicinal products and other forms of interaction**

Pre-treatment with other anti-inflammatory medicinal products may result in additional or increased adverse effects and accordingly a treatment-free period with such products should be observed for at least 24 hours before the commencement of treatment with the veterinary medicinal product. The treatment-free period, however, should take into account the pharmacokinetic properties of the medicinal products used previously.

The product must not be administered in conjunction with other NSAIDs or glucocorticosteroids. Gastrointestinal tract ulceration may be exacerbated by corticosteroids in animals given non-steroidal anti-inflammatory drugs.

Concomitant treatment with molecules displaying action on renal flow, e.g. diuretics or Angiotensin Converting Enzyme (ACE) inhibitors, should be subject to clinical monitoring. Concurrent administration of potentially nephrotoxic medicinal products should be avoided as there might be an increased risk of renal toxicity. As anaesthetic medicinal products may affect renal perfusion, the use of parenteral fluid therapy during surgery should be considered to decrease potential renal complications when using NSAIDs peri-operatively.

Concurrent use of other active substances that have a high degree of protein binding may compete with firocoxib for binding and thus lead to toxic effects.

#### 4.9 Amount(s) to be administered and administration route

Oral use.

##### Osteoarthritis:

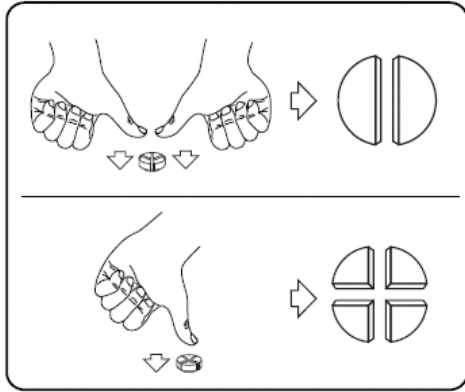
Administer 5 mg per kg bodyweight once daily as presented in the table below. Duration of treatment will be dependent on the response observed. As field studies were limited to 90 days, longer-term treatment should be considered carefully and regular monitoring undertaken by the veterinarian.

##### Relief of post-operative pain:

Administer 5 mg per kg bodyweight once daily as presented in the table below for up to 3 days as needed, starting approximately 2 hours prior to surgery. Following orthopaedic surgery and depending on the response observed, treatment using the same daily dosing schedule may be continued after the first 3 days, upon judgement of the attending veterinarian.

Body weight (kg)	Number of chewable tablets by size		mg/kg bw range
	100 mg		
3.6 – 5	0.25		5.0 – 6.9
8.6 - 10	0.5		5.0 – 5.8
10.1 – 15	0.75		5.0 – 7.4
15.1 – 20	1		5.0 – 6.6
20.1 – 25	1.25		5.0 – 6.2
25.1 – 30	1.5		5.0 – 6.0
30.1 – 35	1.75		5.0 – 5.8
35.1 - 40	2		5.0 – 5.7

Tablets can be administered with or without food.



Tablets can be divided into 2 or 4 equal parts to enable accurate dosing. Place the tablet on a flat surface, with its scored side facing up and the convex (rounded) side facing the surface.

To split into 2 equal parts:

Press your thumbs down on both sides of the tablet.

To split into 4 equal parts:

Press your thumb down in the middle of the tablet.

#### 4.10 Overdose (symptoms, emergency procedures, antidotes), if necessary

In dogs ten weeks of age, at the start of treatment, at dose rates equal or greater to 25 mg/kg/day (5 times the recommended dose) for three months, the following signs of toxicity were observed: bodyweight loss, poor appetite, changes in the liver (accumulation of lipid), brain (vacuolisation), duodenum (ulcers) and death. At dose rates equal or greater to 15 mg/kg/day (3 times the recommended dose) for six months, similar clinical signs were observed, albeit that the severity and frequency were less and duodenal ulcers were absent. In those target animal safety studies, clinical signs of toxicity were reversible in some dogs following cessation of therapy.

In dogs seven months of age, at the start of treatment, at dose rates greater than or equal to 25 mg/kg/day (5 times the recommended dose) for six months, gastrointestinal adverse effects, i.e. vomiting were observed.

Overdose studies were not conducted in animals over 14 months of age. If clinical signs of overdosing are observed, discontinue treatment.

#### 4.11 Withdrawal period(s)

Not applicable.

### 5. PHARMACOLOGICAL PROPERTIES

**Pharmacotherapeutic group:** Antiinflammatory and antirheumatic products, non-steroids.

**ATC Vet Code:** QM01AH90

## 5.1 Pharmacodynamic properties

Firocoxib is a non-steroidal anti-inflammatory drug (NSAID) belonging to the Coxib group, which acts by selective inhibition of cyclooxygenase-2 (COX-2) – mediated prostaglandin synthesis. Cyclooxygenase is responsible for generation of prostaglandins. COX-2 is the isoform of the enzyme that has been shown to be induced by pro-inflammatory stimuli and has been postulated to be primarily responsible for the synthesis of prostanoid mediators of pain, inflammation, and fever. Coxibs therefore display analgesic, anti-inflammatory and antipyretic properties. COX-2 is also thought to be involved in ovulation, implantation and closure of the ductus arteriosus, and central nervous system functions (fever induction, pain perception and cognitive function). In in-vitro canine whole blood assays, firocoxib exhibits approximately 380-fold selectivity for COX-2 over COX-1.

The concentration of firocoxib required to inhibit 50 % of the COX-2 enzyme (i.e., the IC<sub>50</sub>) is 0.16 (± 0.05) µM, whereas the IC<sub>50</sub> for COX-1 is 56 (± 7) µM.

## 5.2 Pharmacokinetic particulars

Following oral administration in dogs at the recommended dose of 5 mg per kg of bodyweight, firocoxib is rapidly absorbed and the time to maximal concentration (T<sub>max</sub>) is 1.25 (± 0.85) hours. The peak concentration (C<sub>max</sub>) is 0.52 (± 0.22) µg/ml (equivalent to approximately 1.5 µM), area under the curve (AUC<sub>0-24</sub>) is 4.63 (± 1.91) µg x hr/ml, and oral bioavailability is 36.9 (± 20.4) percent. The elimination half-life (t<sub>1/2</sub>) is 7.59 (± 1.53) hours. Plasma concentration-time can exhibit a bimodal distribution with a potential entero-hepatic cycle. Firocoxib is approximately 96 % bound to plasma proteins. Following multiple oral administrations, the steady state is reached by the third daily dose.

Firocoxib is metabolised predominantly by dealkylation and glucuronidation in the liver. Elimination is principally in the bile and gastrointestinal tract.

## 6. PHARMACEUTICAL PARTICULARS

### 6.1 List of excipients

Lactose monohydrate  
Microcrystalline cellulose  
Hydroxypropyl cellulose  
Croscarmellose sodium  
Silica, colloidal hydrated  
Magnesium stearate  
Chicken flavour

### 6.2 Major Incompatibilities

Not applicable.

### **6.3 Shelf life**

Shelf life of the veterinary medicinal product as packaged for sale: 4 years.

### **6.4 Special precautions for storage**

This veterinary medicinal product does not require any special storage conditions.

### **6.5 Nature and composition of immediate packaging**

Aluminium - PVC/PE/PVDC blister, each containing 10 tablets, in a cardboard box.

Cardboard box with 10 tablets  
Cardboard box with 20 tablets  
Cardboard box with 30 tablets  
Cardboard box with 50 tablets  
Cardboard box with 100 tablets  
Cardboard box with 200 tablets

Not all pack sizes may be marketed.

### **6.6 Special precautions for the disposal of unused veterinary medicinal product or waste materials derived from the use of such products**

Medicines should not be disposed of via wastewater.  
Any unused veterinary medicinal product or waste materials derived from such veterinary medicinal product should be disposed of in accordance with local requirements.

## **7. MARKETING AUTHORISATION HOLDER**

CP Pharma Handelsgesellschaft mbH  
Ostlandring 13  
31303 Burgdorf  
Germany

## **8. MARKETING AUTHORISATION NUMBER**

Vm 20916/5015

## **9. DATE OF FIRST AUTHORISATION**

06 September 2024

## **10. DATE OF REVISION OF THE TEXT**

September 2024

## **PROHIBITION OF SALE, SUPPLY AND/OR USE**

Not applicable

### **11. CLASSIFICATION OF VETERINARY MEDICINAL PRODUCTS**

Veterinary medicinal product subject to prescription.  
Find more product information by searching for the 'Product Information Database' or 'PID' on [www.gov.uk](http://www.gov.uk).

*Gavin Hall*  
Approved: 06 September 2024