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- Trockeneiszuschlag
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- Expressversand

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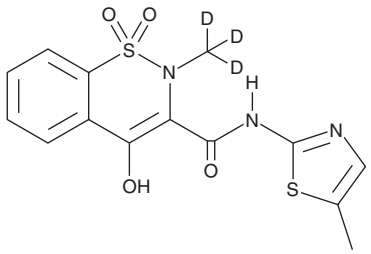
PRODUCT INFORMATION

Meloxicam-d_3

Item No. 25508

CAS Registry No.: 942047-63-4
Formal Name: 4-hydroxy-2-(methyl-d_3)-N-(5-methyl-2-thiazolyl)-2H-1,2-benzothiazine-3-carboxamide, 1,1-dioxide
MF: $C_{14}H_{10}D_3N_3O_4S_2$
FW: 354.4
Chemical Purity: ≥95% (Meloxicam)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_3); ≤1% d_0
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Meloxicam-d_3 is intended for use as an internal standard for the quantification of meloxicam (Item No. 14906) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated *versus* unlabeled).

Meloxicam-d_3 is supplied as a solid. A stock solution may be made by dissolving the meloxicam-d_3 in the solvent of choice, which should be purged with an inert gas. Meloxicam-d_3 is slightly soluble in DMSO and methanol.

Description

Meloxicam is a selective inhibitor of COX-2 (IC_{50}s = 11.8 and 143 µM for COX-2 and COX-1, respectively, in an enzyme activity assay) and a non-steroidal anti-inflammatory drug (NSAID).[1] Meloxicam (0.03%) reduces croton oil-induced increases in TNF-α and IL-1β mRNA levels and increases IL-10 mRNA levels in cornea in a rabbit model of acute ocular inflammation.[2] It inhibits pleural plasma exudation in a carrageenan-induced rat model of pleurisy when administered at a dose of 3 mg/kg.[1] In a canine model of unilateral osteoarthritis of the right stifle joint, meloxicam reduces prostaglandin E_2 (PGE_2) levels in plasma and right stifle joint synovial fluid when administered at a dose of 0.2 mg/kg.[3] Formulations containing meloxicam have been used in the treatment of osteoarthritis and rheumatoid arthritis.

References

1. Ogino, K., Hatanaka, K., Kawamura, M., *et al.* Evaluation of pharmacological profile of meloxicam as an anti-inflammatory agent, with particular reference to its relative selectivity for cyclooxygenase-2 over cyclooxygenase-1. *Pharmacology* **55(1)**, 44-53 (1997).
2. Cruz, R., Quintana-Hau, J.D., González, J.R., *et al.* Effects of an ophthalmic formulation of meloxicam on COX-2 expression, PGE_2 release, and cytokine expression in a model of acute ocular inflammation. *Br. J. Ophthalmol.* **92(1)**, 120-125 (2008).
3. Jones, C.J., Streppa, H.K., Harmon, B.G., *et al.* In vivo effects of meloxicam and aspirin on blood, gastric mucosal, and synovial fluid prostanoid synthesis in dogs. *Am. J. Vet. Res.* **63(11)**, 1527-1531 (2002).

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