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Produktinformation

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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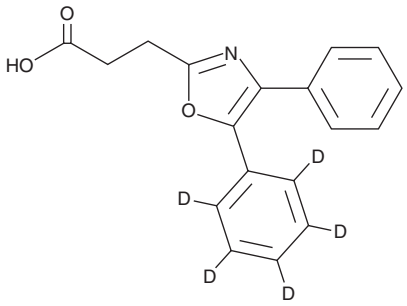
PRODUCT INFORMATION

Oxaprozin-d_5

Item No. 33279



Formal Name:	4-phenyl-5-(phenyl-d_5)-2-oxazolepropanoic acid
MF:	$C_{18}H_{10}D_5NO_3$
FW:	298.4
Chemical Purity:	≥98% (Oxaprozin)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_5); ≤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

Oxaprozin-d_5 is intended for use as an internal standard for the quantification of oxaprozin (Item No. 15476) 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).

Oxaprozin-d_5 is supplied as a solid. A stock solution may be made by dissolving the oxaprozin-d_5 in the solvent of choice, which should be purged with an inert gas. Oxaprozin-d_5 is soluble in organic solvents such as ethanol, methanol, DMSO, and dimethyl formamide.

Description

Oxaprozin is a non-steroidal anti-inflammatory drug (NSAID) and COX inhibitor (IC_{50}s = 2.2 and 36 µM for human COX-1 and COX-2, respectively).[1] It decreases acetic acid-induced writhing times and carrageenan-induced paw edema in mice when administered at doses of 100 and 70 mg/kg, respectively.[2] Formulations containing oxaprozin have been used in the treatment of pain associated with osteoarthritis and rheumatoid arthritis.

References

1. Kawai, S., Nishida, S., Kato, M., *et al.* Comparison of cyclooxygenase-1 and -2 inhibitory activities of various nonsteroidal anti-inflammatory drugs using human platelets and synovial cells. *Eur. J. Pharmacol.* **347(1)**, 87-94 (1998).
2. Zhou, X.P., Zhang, M.X., Sun, W., *et al.* Design, synthesis, and *in-vivo* evaluation of 4,5-diaryloxazole as novel nonsteroidal anti-inflammatory drug. *Biol. Pharm. Bull.* **32(12)**, 1986-1990 (2009).

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