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- Trockeneiszuschlag
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- Expressversand

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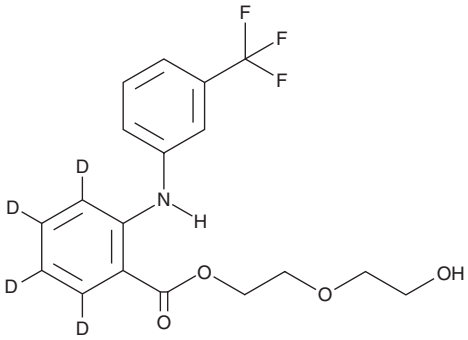
PRODUCT INFORMATION

Etofenamate-d_4

Item No. 30745

CAS Registry No.:	1329837-73-1
Formal Name:	2-(2-hydroxyethoxy)ethyl 2-((3-(trifluoromethyl)phenyl)amino) benzoate-3,4,5,6-d_4
MF:	$C_{18}H_{14}D_4F_3NO_4$
FW:	373.4
Chemical Purity:	≥98% (Etofenamate)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_4); ≤1% d_0
Supplied as:	An oil
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

Etofenamate-d_4 is intended for use as an internal standard for the quantification of etofenamate (Item No. 23674) 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).

Etofenamate-d_4 is supplied as an oil. A stock solution may be made by dissolving the etofenamate-d_4 in the solvent of choice, which should be purged with an inert gas. Etofenamate-d_4 is soluble in methanol and acetonitrile.

Description

Etofenamate is a non-steroidal anti-inflammatory drug (NSAID) and diethylene glycol ester form of flufenamic acid (Item No. 21447) that has anti-inflammatory and analgesic activities.[1,2] It inhibits lipoxygenase isolated from guinea pig leukocytes (IC_{50} = 5.3 µM) and the production of prostaglandin E_2 (PGE_2; Item No. 14010) in stimulated rat peritoneal macrophages.[1] *In vivo*, etofenamate reduces acetic acid-induced vascular permeability in mice and UV-induced erythema in guinea pigs in a dose-dependent manner at doses ranging from 40-320 and 5-20 mg/kg, respectively.[2] Etofenamate (40 mg/kg per day for 21 days) inhibits inflammation in a rat model of adjuvant-induced arthritis. It also decreases the pain response in a silver nitrate-induced rat model of arthritis and the acetic acid-induced writhing test in mice, indicating analgesic activity. Formulations containing etofenamate have been used in the treatment of osteoarthritis.

References

1. Nakamura, H., Motoyoshi, S., Ishii, K., *et al.* The mode of anti-inflammatory action of a topical non-steroidal anti-inflammatory drug, etofenamate. *Nihon Yakurigaku Zasshi.* **89(1)**, 15-24 (1987).
2. Nakamura, H., Motoyoshi, S., Imazu, C., *et al.* Anti-inflammatory, analgesic and anti-pyretic activities of a non-steroidal anti-inflammatory drug, etofenamate, in experimental animals. *Nihon Yakurigaku Zasshi.* **80(2)**, 125-135 (1982).

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