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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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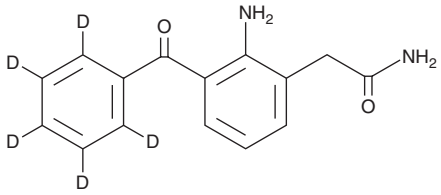
PRODUCT INFORMATION

Nepafenac-d_5

Item No. 33717

CAS Registry No.: 1246814-53-8
Formal Name: 2-amino-3-(benzoyl-d_5)-benzeneacetamide
Synonyms: AHR 9434-d_5, AL 6515-d_5
MF: $C_{15}H_9D_5N_2O_2$
FW: 259.3
Chemical Purity: ≥95% (Nepafenac)
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

Nepafenac-d_5 is intended for use as an internal standard for the quantification of nepafenac (Item No. 23700) 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).

Nepafenac-d_5 is supplied as a solid. A stock solution may be made by dissolving the nepafenac-d_5 in the solvent of choice, which should be purged with an inert gas. Nepafenac-d_5 is soluble in DMSO and dimethyl formamide.

Description

Nepafenac is a prodrug form of amfenac, a non-steroidal anti-inflammatory drug (NSAID) and an inhibitor of COX-1 and COX-2.[1] Nepafenac is an inhibitor of prostaglandin (PG) synthase 1 (IC_{50} = 64.3 µM) that inhibits the production of PGs in isolated rabbit iris/ciliary body.[2] It also reduces protein and PGE_2 (Item No. 14010) accumulation in a rabbit model of acute ocular inflammation when applied topically at a concentration of 0.1% prior to paracentesis. Formulations containing nepafenac have been used in the treatment of pain and inflammation associated with cataract surgery.

References

1. Gamache, D.A., Graff, G., Brady, M.T., *et al.* Nepafenac, a unique nonsteroidal prodrug with potential utility in the treatment of trauma-induced ocular inflammation: I. Assessment of anti-inflammatory efficacy. *Inflammation* **24(4)**, 357-370 (2000).
2. Ke, T.L., Graff, G., Spellman, J.M., *et al.* Nepafenac, a unique nonsteroidal prodrug with potential utility in the treatment of trauma-induced ocular inflammation: II. In vitro bioactivation and permeation of external ocular barriers. *Inflammation* **24(4)**, 371-384 (2000).

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