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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

Triamcinolone acetonide-d_7

Item No. 25236

Formal Name: (6aS,6bR,7S,8aS,8bS,11aR,12aS,12bS)-6b-fluoro-7-hydroxy-8b-(2-hydroxyacetyl-2-d)-6a,8a-dimethyl-10,10-*bis*(methyl-d_3)-1,2,6a,6b,7,8,8a,8b,11a,12,12a,12b-dodecahydro-4H-naphtho[2',1':4,5] indeno[1,2-d][1,3]dioxol-4-one

MF: $C_{24}H_{24}D_7FO_6$

FW: 441.5

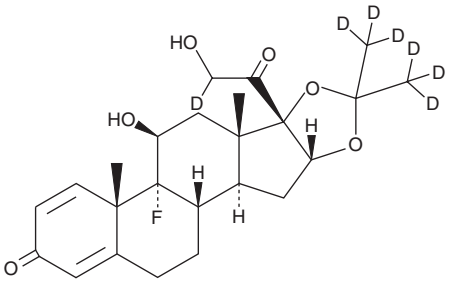
Chemical Purity: ≥95% (Triamcinolone acetonide)

Deuterium Incorporation: ≥99% deuterated forms (d_1-d_7); ≤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

Triamcinolone acetonide-d_7 is intended for use as an internal standard for the quantification of triamcinolone acetonide (Item No. 18026) 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).

Triamcinolone acetonide-d_7 is supplied as a solid. A stock solution may be made by dissolving the triamcinolone acetonide-d_7 in the solvent of choice, which should be purged with an inert gas. Triamcinolone acetonide-d_7 is slightly soluble in chloroform and methanol.

Description

Triamcinolone acetonide is a synthetic corticosteroid.[1] It decreases cytokine levels, the firing rate of sensory neurons, and mechanical hypersensitivity in a rat spinal nerve ligation model when used at a dose of 1.5 mg/kg prior to and following surgery for three days. Triamcinolone acetonide also decreases outflow facility in a mouse model of steroid-induced glaucoma when 20 µl of a 40 mg/ml suspension is administered subconjunctivally.[2] Formulations containing triamcinolone acetonide are used in the treatment of diabetic macular edema.

References

1. Li, H., Xie, W., Strong, J.A., *et al.* Systemic antiinflammatory corticosteroid reduces mechanical pain behavior, sympathetic sprouting, and elevation of proinflammatory cytokines in a rat model of neuropathic pain. *Anesthesiology* **107(3)**, 469-477 (2007).
2. Kumar, S., Shah, S., Deutsch, E.R., *et al.* Triamcinolone acetonide decreases outflow facility in C57BL/6 mouse eyes. *Invest. Ophthalmol. Vis. Sci.* **54(2)**, 1280-1287 (2013).

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