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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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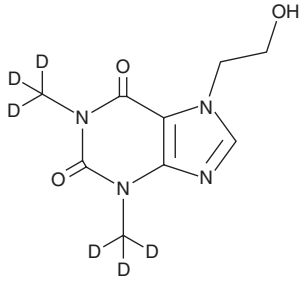
PRODUCT INFORMATION

7-(β-Hydroxyethyl)theophylline-d_6

Item No. 35133

Formal Name:	7-(2-hydroxyethyl)-1,3-*bis*(methyl-d_3)-3,7-dihydro-1H-purine-2,6-dione
Synonyms:	Etophylline-d_6, Hydroxyethyltheophylline-d_6
MF:	$C_9H_6D_6N_4O_3$
FW:	230.3
Chemical Purity:	≥90% (7-(β-hydroxyethyl)theophylline)
Deuterium Incorporation:	≥99% deuterated forms (d_1-d_6); ≤1% d_0
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



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

Laboratory Procedures

7-(β-Hydroxyethyl)theophylline-d_6 is intended for use as an internal standard for the quantification of 7-(β-hydroxyethyl)theophylline (Item No. 28372) 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).

7-(β-Hydroxyethyl)theophylline-d_6 is supplied as a solid. A stock solution may be made by dissolving the 7-(β-hydroxyethyl)theophylline-d_6 in the solvent of choice, which should be purged with an inert gas. 7-(β-Hydroxyethyl)theophylline-d_6 is soluble in chloroform and methanol.

Description

7-(β-Hydroxyethyl)theophylline is a methylxanthine phosphodiesterase (PDE) inhibitor.[1] It reduces histamine, 5-hydroxytryptamine (5-HT), and bradykinin-induced bronchoconstriction in an anesthetized guinea pig model of bronchial asthma.[2] Formulations containing 7-(β-hydroxyethyl)theophylline in combination with theophylline have been used in the treatment of asthma.

References

1. Mizon, J., Skandrani, E., and Mizon, C. Determination of the inhibitory activity of some new substituted theophyllines on the specific phosphodiesterase of cyclic nucleotides. *Therapie* **26(5)**, 911-917 (1971).
2. Ufkes, J.G., Leeuwin, R.S., Ottenhof, M., *et al*. Efficacy of theophylline and its N-7-substituted derivatives in experimentally induced bronchial asthma in the guinea-pig. *Arch. Int. Pharmacodyn. Ther.* **253(2)**, 301-314 (1981).

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