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- Trockeneiszuschlag
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- Expressversand

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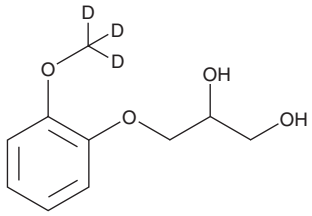
PRODUCT INFORMATION

Guaifenesin-d_3

Item No. 33368

CAS Registry No.: 1189924-85-3
Formal Name: 3-(2-(methoxy-d_3)phenoxy)propane-1,2-diol
Synonyms: MY-301-d_3, SL 90-d_3, XL90-d_3
MF: $C_{10}H_{11}D_3O_4$
FW: 201.2
Chemical Purity: ≥98% (Guaifenesin)
Deuterium Incorporation: ≥99% deuterated forms (d_1-d_3); ≤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

Guaifenesin-d_3 is intended for use as an internal standard for the quantification of guaifenesin (Item No. 21250) 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).

Guaifenesin-d_3 is supplied as a solid. A stock solution may be made by dissolving the guaifenesin-d_3 in the solvent of choice, which should be purged with an inert gas. Guaifenesin-d_3 is soluble in organic solvents such as methanol and DMSO.

Description

Guaifenesin is an expectorant.[1] It inhibits production of mucin 5AC (MUC5AC), reduces mucus viscosity and elasticity, and increases the mucociliary transport rate of endogenous particles in primary human tracheobronchial epithelial cells in a concentration-dependent manner.[2] Guaifenesin (50 mg/kg, p.o.) increases phenol red secretion, a marker of expectorant activity, in rats.[3] Formulations containing guaifenesin have been used as expectorants in the treatment of the common cold and chronic bronchitis.

References

1. Seagrave, J., Albrecht, H.H., Hill, D.B., *et al.* Effects of guaifenesin, N-acetylcysteine, and ambroxol on MUC5AC and mucociliary transport in primary differentiated human tracheal-bronchial cells. *Respir. Res.* **13(1)**, 98 (2012).
2. Seagrave, J., Albrecht, H., Park, Y.S., *et al.* Effect of guaifenesin on mucin production, rheology, and mucociliary transport in differentiated human airway epithelial cells. *Exp. Lung Res.* **37(10)**, 606-614 (2011).
3. Kagan, L., Lavy, E., and Hoffman, A. Effect of mode of administration on guaifenesin pharmacokinetics and expectorant action in the rat model. *Pulm. Pharmacol. Ther.* **22(3)**, 260-265 (2009).

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