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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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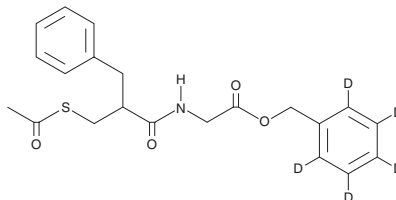
PRODUCT INFORMATION



Racecadotril-d₅

Item No. 33893

CAS Registry No.: 1246815-11-1
Formal Name: N-[2-[(acetylthio)methyl]-1-oxo-3-phenylpropyl]-glycine, (phenyl-d₅)methyl ester
Synonym: Acetorphan-d₅
MF: C₂₁H₁₈D₅NO₄S
FW: 390.5
Chemical Purity: ≥98% (Racecadotril)
Deuterium Incorporation: ≥99% deuterated forms (d₁-d₅); ≤1% d₀
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

Racecadotril-d₅ is intended for use as an internal standard for the quantification of racecadotril (Item No. 20390) 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).

Racecadotril-d₅ is supplied as a solid. A stock solution may be made by dissolving the racecadotril-d₅ in the solvent of choice, which should be purged with an inert gas. Racecadotril-d₅ is slightly soluble in methanol and DMSO.

Description

Racecadotril is a prodrug form of the neprilysin (NEP) inhibitor thiorphan (Item No. 15600).^{1,2} *In vivo*, racecadotril reduces or prevents castor oil-induced diarrhea without delaying intestinal transit in rats when administered at doses of 80 or 100 mg/kg, respectively.¹ It also decreases the duration of diarrhea and increases body weight gain in a neonatal gnotobiotic pig model of human rotavirus-induced diarrhea.² Formulations containing racecadotril have been used in the treatment of acute diarrhea.

References

1. Griggs, D.W., Prinsen, M.J., Oliva, J., *et al.* Pharmacologic comparison of clinical neutral endopeptidase inhibitors in a rat model of acute secretory diarrhea. *J. Pharmacol. Exp. Ther.* **357**(2), 423-431 (2016).
2. Bui, T., Li, G., Kim, I., *et al.* Effects of racecadotril on weight loss and diarrhea due to human rotavirus in neonatal gnotobiotic pigs (*Sus scrofa domestica*). *Comp. Med.* **67**(2), 157-164 (2017).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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