

Product Data Sheet

Product Name: Racecadotril-d5

Cat. No.: GC49108

Chemical Properties

Cas. No. 1246815-11-1

SMILES [2H]C1=C([2H])C([2H])=C([2H])C([2H])=C1COC(CNC(C(CSC(C)=O)CC2=CC=CC=C2)=O)=O

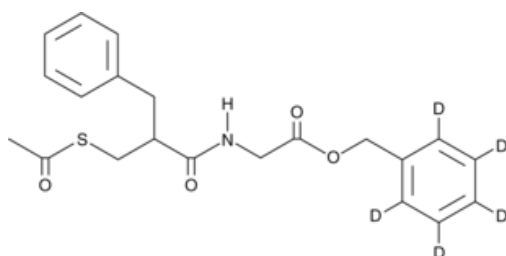
Formula C₂₁H₁₈D₅NO₄S M.Wt 390.5

Solubility DMSO: slightly soluble, Methanol: slightly soluble Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Racecadotril-d₅ is intended for use as an internal standard for the quantification of racecadotril by GC- or LC-MS. Racecadotril is a prodrug form of the neprilysin (NEP) inhibitor thiorphan.^{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.

1. Griggs, D.W., Prinsen, M.J., Oliva, J., et al. Pharmacologic comparison of clinical neutral

Caution: Product has not been fully validated for medical applications. For research use only.

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endopeptidase inhibitors in a rat model of acute secretory diarrheaJ. 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 domesticus)Comp.
Med.67(2)157-164(2017)

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