

Product Data Sheet

Product Name: Roxatidine-d10 (hemioxalate)

Cat. No.: GC49135

Chemical Properties

Cas. No. 2832423-41-1

SMILES OCC(NCCCCOC1=CC=CC(CN2C([2H])([2H])C([2H])([2H])C([2H])([2H])C([2H])([2H])C2([2H])([2H])=C1)=O).OC(C(O)=O)=O

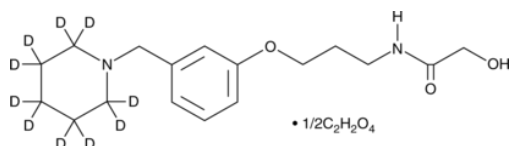
Formula C₁₇H₁₆D₁₀N₂O₃·1/2C₂H₂O₄ M.Wt 361.5

Solubility DMSO: soluble, Water: soluble Storage -20°C

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

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

Structure



Background

Roxatidine-d₁₀ is intended for use as an internal standard for the quantification of roxatidine by GC- or LC-MS. Roxatidine is a histamine H₂ receptor antagonist and major active metabolite of roxatidine acetate.¹ Roxatidine reduces histamine-induced adenylate cyclase production in guinea pig parietal cells (IC₅₀ = 0.8 μM). It inhibits histamine-induced hydrogen ion accumulation in the same cells (pA₂ = 7.03). Roxatidine (200 mg/kg) reduces small intestinal lesion area in a rat model of gastric mucosal injury induced by indomethacin.²

1. Sewing, K.-F., Beil, W., and Hannemann, H. Comparative pharmacology of histamine H₂-receptor antagonists. *Drugs* 35(Suppl. 3):25-29 (1988).
2. Umegaki, E., Yoda, Y., Tokioka, S., et al. Protective effect of roxatidine against indomethacin-induced small intestinal mucosal injury in rats. *J.*

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

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