
Product Data Sheet

Product Name: Netupitant D6 (CID-6451149 D6)

Cat. No.: GC34418

Chemical Properties

Cas. No.

SMILES CN(CC1)CCN1C2=CC(C3=CC=CC=C3C)=C(N(C)C(C(C([2H]))([2H])[2H])(C([2H]))([2H])[2H])C4=CC(C(F)(F)F)=CC(C(F)(F)F)=C4)=O)C=N2

Formula C₃₀H₂₆D₆F₆N₄O

M.Wt

584.63

Solubility Soluble in DMSO

Storage

Store at -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**

Netupitant-d₆ is intended for use as an internal standard for the quantification of netupitant by GC- or LC-MS. Netupitant is an insurmountable antagonist of the neurokinin-1 (NK₁) receptor (K_i = 0.95 nM in CHO cells expressing the human recombinant receptor).¹ It is selective for human NK₁ over human NK₂ and NK₃ and rat NK₁ (K_is = >1,500 nM) and over 50 G protein-coupled receptors, monoamine transporters, and ion channels when used in the nanomolar range.² Netupitant decreases the maximal response to substance P-induced contractions in isolated guinea pig ileum with long-lasting effects. It also dose-dependently inhibits the substance P-induced scratching, biting, and licking response in mice when used at doses ranging from 1 to 10 mg/kg and decreases NK agonist-induced foot tapping in gerbils (ID₅₀s = 1.5 mg/kg, i.p., or 0.5 mg/kg, oral).

1. Hoffmann, T., B? s, M., Stadler, H., et al. Design and synthesis of a novel, achiral class of highly potent and selective, orally active neurokinin-1 receptor antagonists *Bioorg. Med.*

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

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Chem. Lett.16(5)1362-1365(2006) 2.Rizzi, A., Campi, B., Camarda, V., et al.In vitro and in vivo pharmacological characterization of the novel NK1 receptor selective antagonist NetupitantPeptides37(1)86-97(2012)

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