

Product Data Sheet

Product Name: Galnon (trifluoroacetate salt)

Cat. No.: GC47390

Chemical Properties

Cas. No. 1217448-19-5

SMILES O=C(N[C@@H](CC1CCCCC1)C(N[C@H](C(NC2=CC(OC(C=C3C)=O)=C3C=C2)=O)C(CCCN)=O)OCC4C(C=CC=C5)=C5C6=C4C=CC=C6.OC(C(F)(F)F)=O

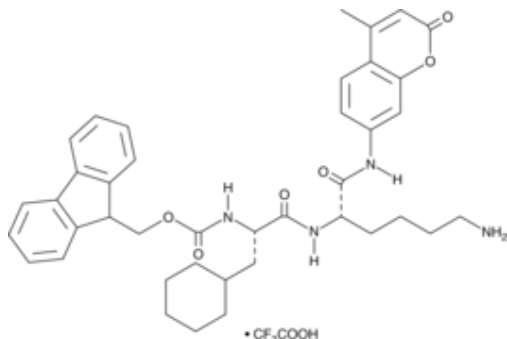
Formula C₄₀H₄₆N₄O₆.CF₃COOH M.Wt 792.9

Solubility DMF: 10 mg/ml, DMSO: 10 mg/ml, DMSO:PBS (pH 7.2) (1:2): 0.3 mg/ml
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

Galnon is a galanin (GAL) receptor agonist ($K_D = 2.9 \mu\text{M}$ in Bowes cells expressing GAL₁ receptors).¹ It inhibits forskolin-induced adenylate cyclase activity in rat hippocampal membranes ($EC_{50} = 10 \mu\text{M}$). Galnon (2 mg/kg) reduces the maximal seizure score and increases the latency to first seizure in a mouse model of seizure induced by pentylenetetrazole. It reduces cocaine-induced

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

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motor activity and frontal cortex, but not nucleus accumbens, dopamine overflow, as well as blocks cocaine-primed reinstatement of cocaine-seeking behavior in rats.² Galnon (1.5-5 mg/kg) reduces food intake in rats and mice.³

- 1.Saar, K., Mazarati, A.M., Mahlapuu, R., et al.Anticonvulsant activity of a nonpeptide galanin receptor agonistProc. Natl. Acad. Sci. USA99(10)7136-7141(2002)
- 2.Ogbonmwan, Y.E., Sciolino, N.R., Groves-Chapman, J.L., et al.The galanin receptor agonist, galnon, attenuates cocaine-induced reinstatement and dopamine overflow in the frontal cortexAddict. Biol.20(4)701-713(2015)
- 3.Abramov, U., Florén, A., Echevarria, D.J., et al.Regulation of feeding by galnonNeuropeptides38(1)55-61(2004)

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