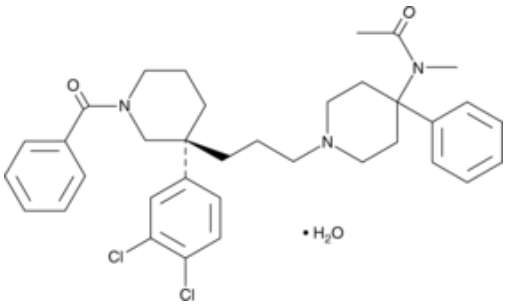
Product Data Sheet

Product Name: Osanetant (hydrate)
Cat. No.: GC48405

Chemical Properties

Cas. No.			
SMILES	O=C(C1=CC=CC=C1)N(CCC2)C[C@]2(C3=CC(Cl)=C(C=C3)Cl)CCCN4CCC(C5=CC=CC=C5)(N(C)C(C)=O)CC4.O		
Formula	C35H41Cl2N3O2•H2O	M.Wt	624.7
Solubility	DMSO: 15 mg/ml	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

Osanetant is a neurokinin-3 (NK_3) receptor antagonist (K_i = 0.21 nM in CHO cells expressing the human receptor).[1] It is selective for NK_3 over NK_1 and NK_2 receptors (K_is = >100 and 0.02 µM, respectively).[2] Osanetant inhibits contractions and acetylcholine release induced by neurokinin B in isolated guinea pig ileal strips in a concentration-dependent manner.[1] It inhibits ovalbumin-induced increases in bronchoalveolar lavage fluid (BALF) neutrophil, eosinophil, and lymphocyte infiltration in an ovalbumin-sensitized mouse model of allergic asthma.[3] Osanetant (5 and 10 mg/kg) increases the duration of social interaction, as well as reduces immobility time in the tonic immobility test, indicating anxiolytic-like and antidepressant-like activities, respectively, in gerbils.[4]

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

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1.Emonds-Alt, X., Bichon, D., Ducoux, J.P., et al.SR 142801, the first potent non-peptide antagonist of the tachykinin NK3 receptorLife Sci.56(1)PL27-PL32(1995) 2.Griebel, G., and BeeskÉ, S.Is there still a future for neurokinin 3 receptor antagonists as potential drugs for the treatment of psychiatric diseases•Pharmacol. Ther.133(1)116-123(2012) 3.NÉnan, S., Germain, N., Lagente, V., et al.Inhibition of inflammatory cell recruitment by the tachykinin NK3-receptor antagonist, SR 142801, in a murine model of asthmaEur. J. Pharmacol.421(3)201-205(2001) 4.SalomÉ, N., Stemmelin, J., Cohen, C., et al.Selective blockade of NK2 or NK3 receptors produces anxiolytic- and antidepressant-like effects in gerbilsPharmacol. Biochem. Behav.83(4)533-539(2006)

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