

Saredutant

Chemical Properties

CAS No. : 142001-63-6

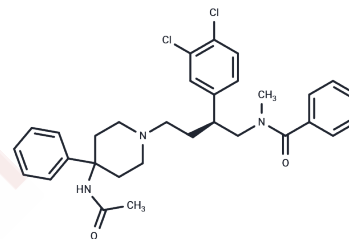
Formula: C₃₁H₃₅Cl₂N₃O₂

Molecular Weight: 552.54

Store at low temperature

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Saredutant (SR 48968) is a selective neurokinin-2 (NK2) receptor antagonist that inhibits the action of neurokinin A by blocking the NK2 receptor, thereby exerting antidepressant and anxiolytic effects.
Targets(IC50)	Neurokinin receptor
In vivo	In FSL rats, oral Saredutant (1-10mg/kg, 14 days) dose-dependently enhanced social interaction and reduced immobility, with no effect in control rats. Combined with subeffective desipramine, it showed synergistic antidepressant effects[1].

Solubility Information

Solubility	DMSO: 200 mg/mL (361.96 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (9.05 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8098 mL	9.0491 mL	18.0982 mL
5 mM	0.362 mL	1.8098 mL	3.6196 mL
10 mM	0.181 mL	0.9049 mL	1.8098 mL
50 mM	0.0362 mL	0.181 mL	0.362 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Overstreet DH, et al. Saredutant, an NK2 receptor antagonist, has both antidepressant-like effects and synergizes with Desipramine in an animal model of depression. *Pharmacol Biochem Behav.* 2010 Aug;96(2):206-10.
A novel antidiuretic hormone governs tumour-induced renal dysfunction

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