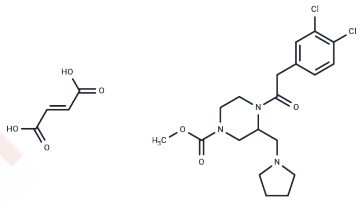
Data Sheet (Cat.No.T22810)

TargetMol

GR 89696 fumarate

Chemical Properties



CAS No. : 126766-32-3

Formula: C23H29Cl2N3O7

Molecular Weight: 530.4

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	GR 89696 fumarate is a highly selective κ2 opioid receptor agonist (IC50 = 0.04nM) with anti-pruritchy, anti-injury and neuroprotective effects.
Targets(IC50)	Opioid Receptor

Solubility Information

Solubility	Ethanol: 3.6 mg/mL (6.79 mM),Sonication is recommended. DMSO: 45 mg/mL (84.84 mM),Sonication is recommended. H2O: 7.7 mg/mL (14.52 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: 2 mg/mL (3.77 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8854 mL	9.4268 mL	18.8537 mL
5 mM	0.3771 mL	1.8854 mL	3.7707 mL
10 mM	0.1885 mL	0.9427 mL	1.8854 mL
50 mM	0.0377 mL	0.1885 mL	0.3771 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

A Barber, et al. Effects of GR-89696 and the novel peripherally selective OP2 agonists, EMD-61569 and EMD-61747, against focal cerebral ischemia in the rat. Methods Find Exp Clin Pharmacol. 1999 Mar;21(2):105-13

Mei-Chuan Ko, et al. Effects of atypical kappa-opioid receptor agonists on intrathecal morphine-induced itch and analgesia in primates. J Pharmacol Exp Ther. 2009 Jan;328(1):193-200.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481