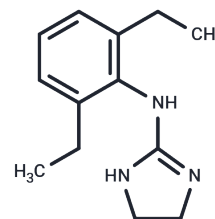


ST 91

Chemical Properties

CAS No. : 4749-61-5
 Formula: C₁₃H₂₀ClN₃
 Molecular Weight: 253.77
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.

HCl



Biological Description

Description	ST-91 is an agonist of α 2-adrenoceptor with a mixed α -adrenergic receptor type/subtype selection profile.
Targets(IC50)	Adrenergic Receptor
In vivo	Intrathecal administration of ST-91 dose-dependently reduces the formalin-induced paw-flinching behaviour in rats[1].

Solubility Information

Solubility	DMSO: 40 mg/mL (157.62 mM),Sonication is recommended. H2O: 22.9 mg/mL (90.24 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9406 mL	19.7029 mL	39.4058 mL
5 mM	0.7881 mL	3.9406 mL	7.8812 mL
10 mM	0.3941 mL	1.9703 mL	3.9406 mL
50 mM	0.0788 mL	0.3941 mL	0.7881 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

Kató E, et al. alpha2B-adrenoceptor agonist ST-91 antagonizes beta2-adrenoceptor-mediated relaxation in rat mesenteric artery rings. *Eur J Pharmacol.* 2008 Feb 12;580(3):361-5.

Nazarian A, Christianson CA, Hua XY, Yaksh TL. Dexmedetomidine and ST-91 analgesia in the formalin model is mediated by alpha2A-adrenoceptors: a mechanism of action distinct from morphine. *Br J Pharmacol.* 2008 Dec; 155(7):1117-26.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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