

HSR6071

Chemical Properties

CAS No. : 111374-21-1

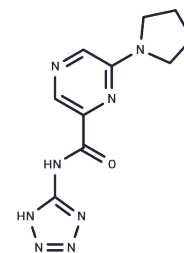
Formula: C₁₀H₁₂N₈O

Molecular Weight: 260.26

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	HSR6071 is a novel orally active and potent anti-allergic agent with inhibitory effects on passive cutaneous anaphylaxis. HSR6071 showed anti-asthmatic activity in a rat model of experimental asthma.
Targets(IC50)	Others
In vivo	HSR-6071 (0.01-0.1 mg/kg; i.v.) inhibits experimental asthma induced by IgE antibody in rats in a dose-dependent manner. Additionally, HSR-6071 (0.3, 1.3 mg/kg; i.v.) prevents bronchoconstriction mediated by IgE or IgG antibody in guinea pigs. The compound inhibits cyclic AMP phosphodiesterase activity and induces relaxation of the guinea pig isolated trachea[1].With an IC50 of 0.46 nM, HSR-6071 inhibits IgE-mediated histamine release. Its effectiveness is observed not only through intravenous (i.v.) administration but also through oral (p.o.) administration in IgE-mediated passive cutaneous anaphylaxis (PCA) in rats. The most potent inhibition with HSR-6071 occurs when administered orally 5 minutes before the antigen challenge, indicating rapid absorption through the gastrointestinal tract[1].

Solubility Information

Solubility	H ₂ O: 20 mg/mL (76.85 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8423 mL	19.2116 mL	38.4231 mL
5 mM	0.7685 mL	3.8423 mL	7.6846 mL
10 mM	0.3842 mL	1.9212 mL	3.8423 mL
50 mM	0.0768 mL	0.3842 mL	0.7685 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

Makino E, et al. Potent inhibitory activity of HSR-6071, a new antiallergic agent, on passive cutaneous anaphylaxis (PCA). *Jpn J Pharmacol.* 1990 Jan;52(1):87-94.

Makino E, et al. Inhibitory effect of HSR-6071, a new anti-allergic agent, on experimental asthma in rats and guinea-pigs. *J Pharm Pharmacol.* 1990 Apr;42(4):236-41.

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