

Bay 60-7550

Chemical Properties

CAS No. : 439083-90-6

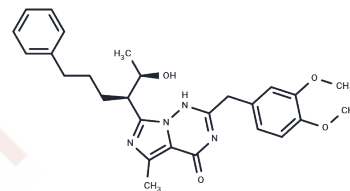
Formula: C₂₇H₃₂N₄O₄

Molecular Weight: 476.57

Appearance: no data available

Storage: store at low temperature

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



Biological Description

Description	Bay 60-7550 is a selective and potent PDE2 inhibitor (K _i : 3.8 nM) that exerts positive inotropic effects on rat heart by increasing PKA-mediated phosphorylation and can be used to ameliorate cognitive impairments and memory disorders.
Targets(IC ₅₀)	PDE
In vitro	The anti-proliferative effect of BAY 60-7550 (1 μM) is pronounced, with a significant decrease in proliferation observed in PSMCs from IPAH patients compared to untreated control cells[2].
In vivo	Administration of the PDE2 inhibitors Bay 60-7550 (0.5, 1, and 3 mg/kg) or ND7001 (1 mg/kg), or the NO donor detanonoate (0.5 mg/kg), antagonized the anxiety-like behavior induced by restraint stress in mice [1].

Solubility Information

Solubility	DMSO: 30 mg/mL (62.89 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0983 mL	10.4916 mL	20.9833 mL
5 mM	0.4197 mL	2.0983 mL	4.1967 mL
10 mM	0.2098 mL	1.0492 mL	2.0983 mL
50 mM	0.042 mL	0.2098 mL	0.4197 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.

Reference

Masood A, et al. Anxiolytic effects of phosphodiesterase-2 inhibitors associated with increased cGMP signaling. J Pharmacol Exp Ther. 2009 Nov;331(2):690-9.

Bubb KJ, et al. Inhibition of phosphodiesterase 2 augments cGMP and cAMP signaling to ameliorate pulmonary hypertension. Circulation. 2014 Aug 5;130(6):496-507.

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:36 Washington Street,Wellesley Hills,MA 02481