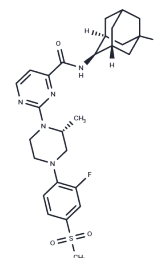


SKI2852

Chemical Properties

CAS No. : 1346554-47-9
 Formula: C₂₇H₃₄FN₅O₄S
 Molecular Weight: 543.65
 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	SKI2852 is an orally active, selective, and efficient 11β-hydroxysteroid dehydrogenase type 1 (11β-HSD1) inhibitor, improving metabolic syndrome in diabetic mouse models.
Targets(IC50)	Dehydrogenase
In vitro	SKI2852, an inhibitor of 11β-hydroxysteroid dehydrogenase type 1 (11βHSD1), has IC 50 values of 2.9 nM and 1.6 nM for HEK293 cells transfected with human (h11βHSD1) and mouse 11βHSD1 (m11βHSD1), respectively. [1]
In vivo	Oral treatment with SKI2852 (12.5 mg/kg) significantly reduced weight gain in severely obese ob/ob mice. Results of SKI2852 (1, 3 or 10 mg/kg once daily for 8.5 weeks, administered orally) showed that all doses of SKI2852 significantly reduced FFA levels. Inhibition of 11βHSD1 by SKI2852 (12.5 mg/kg) may improve systemic and hepatic insulin sensitivity and reverse diabetic symptoms by at least partially inhibiting these gluconeogenic enzyme expression levels in DIO mice. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8394 mL	9.1971 mL	18.3942 mL
5 mM	0.3679 mL	1.8394 mL	3.6788 mL
10 mM	0.1839 mL	0.9197 mL	1.8394 mL
50 mM	0.0368 mL	0.1839 mL	0.3679 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

Oh H, et al. A potent and selective 11β -hydroxysteroid dehydrogenase type 1 inhibitor, SKI2852, ameliorates metabolic syndrome in diabetic mice models. *Eur J Pharmacol.* 2015 Dec 5;768:139-48.

Ryu JH, et al. Discovery of 2-((R)-4-(2-Fluoro-4-(methylsulfonyl)phenyl)-2-methylpiperazin-1-yl)-N-((1R,2s,3S,5S,7S)-5-hydroxyadamantan-2-yl)pyrimidine-4-carboxamide (SKI2852): A Highly Potent, Selective, and Orally Bioavailable Inhibitor of 11β -Hydroxysteroid Dehydrogenase Type 1 (11β -HSD1). *J Med Chem.* 2016 Nov 23;59(22):10176-10189.

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