

PF-4693627

Chemical Properties

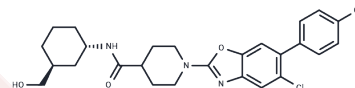
CAS No. : 1312815-93-2

Formula: C₂₆H₂₉Cl₂N₃O₃

Molecular Weight: 502.43

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	PF-4693627 is an effective and selective microsomal prostaglandin E synthase-1 inhibitor (IC ₅₀ =3 nM). It is used for the treatment of inflammation caused by osteoarthritis (OA) and rheumatoid arthritis (RA).
Targets(IC ₅₀)	PGE Synthase, Prostaglandin Receptor
In vitro	PF-4693627 displays high activity in lipopolysaccharide (LPS) stimulated human whole blood (HWB) cell assay (IC ₅₀ =109 nM). PF-4693627 also inhibits mPGES-1 (IC ₅₀ s: 180 and 6 nM in HWB-1483 and human fetal fibroblast, respectively).
In vivo	PF-4693627 (1.0 mg/kg; i.v.) displays good bioavailability (59%) and modest half-life (t _{1/2} =3.7 h) in Sprague-Dawley rats. PF-4693627 (10 mg/kg; orally) suppresses 63% of PGE ₂ production relative to vehicle control in the Guinea pig carrageenan stimulated air pouch model[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9903 mL	9.9516 mL	19.9033 mL
5 mM	0.3981 mL	1.9903 mL	3.9807 mL
10 mM	0.199 mL	0.9952 mL	1.9903 mL
50 mM	0.0398 mL	0.199 mL	0.3981 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

Arhancet GB, et al. Discovery and SAR of PF-4693627, a potent, selective and orally bioavailable mPGES-1 inhibitor for the potential treatment of inflammation. Bioorg Med Chem Lett. 2013 Feb 15;23(4):1114-9.

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