

PBRM

Chemical Properties

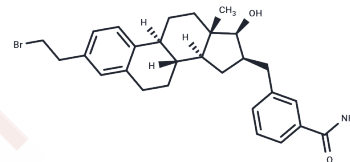
CAS No. : 1318265-18-7

Formula: C₂₈H₃₄BrNO₂

Molecular Weight: 496.48

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	PBRM (17β-HSD1-IN-2) is a selective covalent inhibitor of 17β-HSD1, used in breast cancer and endometriosis research.
Targets(IC50)	Others,Endogenous Metabolite,Dehydrogenase
In vitro	PBRM (0.1-10 μM) inhibited the formation of 5-diol from DHEA by T-47D cells in a dose-dependent manner with IC50 = 0.77 μM. [1]
In vivo	PBRM (15 mg/kg orally) effectively reversed T-47D tumor growth. [1] The half-life of PBRM (14.7 mg/kg subcutaneous injection) in mice was T _{1/2} = 3.4 hours, clearance CL = 2088 mL/h kg, distribution volume Vz = 10.3 L/kg, absolute bioavailability F = 65%. [2]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0142 mL	10.0709 mL	20.1418 mL
5 mM	0.4028 mL	2.0142 mL	4.0284 mL
10 mM	0.2014 mL	1.0071 mL	2.0142 mL
50 mM	0.0403 mL	0.2014 mL	0.4028 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

Poirier D, et al. A Targeted-Covalent Inhibitor of 17 β -HSD1 Blocks Two Estrogen-Biosynthesis Pathways: In Vitro (Metabolism) and In Vivo (Xenograft) Studies in T-47D Breast Cancer Models. *Cancers (Basel)*. 2021 Apr 13;13(8): 1841.

Maltais R, et al. Pharmacokinetic profile of PBRM in rodents, a first selective covalent inhibitor of 17 β -HSD1 for breast cancer and endometriosis treatments. *J Steroid Biochem Mol Biol*. 2018 Apr;178:167-176.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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