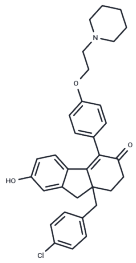
Data Sheet (Cat.No.T14987)

TargetMol

CMP8

Chemical Properties



CAS No. : 851107-28-3

Formula: C33H34ClNO3

Molecular Weight: 528.08

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	CMP8 is a selective ligand for estrogen receptor. CMP8 binds to the mutant estrogen receptor ligand binding domain (ERLBD). CMP8 has IC50 values of 29 nM , 41 nM, 1100 nM and 2200 nM for MGERα, MGRERα, hERα and hERβ, respectively.
Targets(IC50)	Estrogen Receptor/ERR,Estrogen/progestogen Receptor
In vivo	CMP8 is dosed in male Balb-c mice (4 mg/kg, ip). In mammalian cells, the plasma concentration after 4 h is 1.5-fold its EC50. It has a Cmax of 0.5 μM after 30 min.[1][2]

Solubility Information

Solubility	DMSO: 50 mg/mL (94.68 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8937 mL	9.4683 mL	18.9365 mL
5 mM	0.3787 mL	1.8937 mL	3.7873 mL
10 mM	0.1894 mL	0.9468 mL	1.8937 mL
50 mM	0.0379 mL	0.1894 mL	0.3787 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

Miyazaki Y, et al. Destabilizing domains derived from the human estrogen receptor. J Am Chem Soc. 2012 Mar 7; 134(9):3942-5.

Kinzel O, et al. A structure-guided approach to an orthogonal estrogen-receptor-based gene switch activated by ligands suitable for in vivo studies. J Med Chem. 2006 Sep 7;49(18):5404-7.