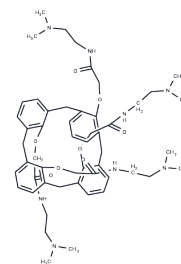


OTX008

Chemical Properties

CAS No. : 286936-40-1
 Formula: C52H72N8O8
 Molecular Weight: 937.18
 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	OTX008 (PTX008) is a selective galectin-1 inhibitor.
Targets(IC50)	Galectin
In vitro	OTX008 inhibits Gal1 expression and ERK1/2 and AKT-dependent survival pathways in SQ20B and A2780-1A9 cells and induces G2/M cell cycle arrest through CDK1. OTX008 increases the anti-proliferative effects of Semaphorin-3A (Sema3A) in SQ20B cells and reverses invasion induced by exogenous Gal1. Growth inhibitory concentrations (GI50) of OTX008 range from 3 to 500 μ M in a large panel of human solid tumor cell lines. A significant correlation between OTX008 GI50 values and Gal1 mRNA (LGALS1) and protein expression levels in the panel of cancer cells is observed. OTX008 affects endothelial cell proliferation, motility, invasiveness, and cord formation. Tumor cell proliferation is also inhibited, with differences in sensitivity among cell lines (IC50 from 1 to 190 μ M)[1][2].
In vivo	OTX008 treatment is associated with the down-regulation of Gal1 and Ki67 in treated tumors, as well as decreased microvessel density and VEGFR2 expression. OTX008 inhibits the growth of A2780-1A9 xenografts. Combination studies display OTX008 synergy with several cytotoxic and targeted therapies, principally when OTX008 is administered first[1].

Solubility Information

Solubility	DMSO: 1.24 mg/mL (1.32 mM),Sonication is recommended. Ethanol: 33.33 mg/mL (35.56 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.067 mL	5.3352 mL	10.6703 mL
5 mM	0.2134 mL	1.067 mL	2.1341 mL
10 mM	0.1067 mL	0.5335 mL	1.067 mL
50 mM	0.0213 mL	0.1067 mL	0.2134 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

Astorgues-Xerri L, et al. OTX008, a selective small-molecule inhibitor of galectin-1, downregulates cancer cell proliferation, invasion and tumour angiogenesis. *Eur J Cancer*. 2014 Sep;50(14):2463-77.

Zucchetti M, et al. Pharmacokinetics and antineoplastic activity of galectin-1-targeting OTX008 in combination with sunitinib. *Cancer Chemother Pharmacol*. 2013 Oct;72(4):879-87.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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