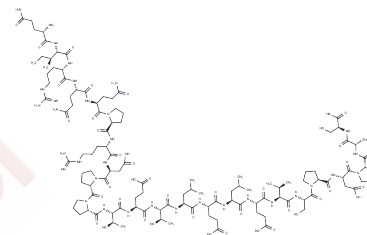


AD 01

Chemical Properties

CAS No. :	959961-23-0
Formula:	C115H187N33O42
Molecular Weight:	2703.94
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	FKBPL (FK506-binding protein like)-based peptide. Binds to and upregulates expression of CD44. Inhibits breast cancer stem cell (BCSC) growth. Decreases pluripotency markers and promotes differentiation of BCSCs. Also inhibits endothelial cell migration as well as tubule and microvessel formation in vitro and in vivo. Blocks tumor growth in xenograft models.
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Solubility Information

Solubility	H2O: 1 mg/mL (0.37 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	0.3698 mL	1.8492 mL	3.6983 mL
5 mM	0.074 mL	0.3698 mL	0.7397 mL
10 mM	0.037 mL	0.1849 mL	0.3698 mL
50 mM	0.0074 mL	0.037 mL	0.074 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

Yakkundi et al (2013) The anti-migratory effects of FKBPL and its peptide derivative, AD-01: regulation of CD44 and the cytoskeletal pathway. PLoS One. 8 e55075 PMID:

McClements et al (2013) Targeting treatment-resistant breast cancer stem cells with FKBPL and its peptide derivative, AD-01, via the CD44 pathway. Clin.Cancer Res. 19 3881 PMID:

Valentine et al (2011) FKBPL and peptide derivatives: novel biological agents that inhibit angiogenesis by a CD44-dependent mechanism. Clin.Cancer Res 17 1044 PMID:

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