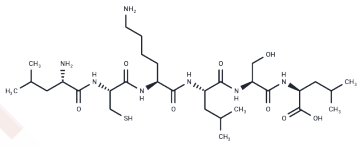
Data Sheet (Cat.No.T40614)

TargetMol

LCKLSL

Chemical Properties



CAS No. : 533902-29-3

Formula: C30H57N7O8S

Molecular Weight: 675.89

Storage: Keep away from moisture
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	LCKLSL, an N-terminal hexapeptide, acts as a competitive inhibitor of annexin A2 (AnxA2), effectively preventing the binding of tissue plasminogen activator (tPA) to AnxA2 while also inhibiting the generation of plasmin. In addition, LCKLSL exhibits anti-angiogenic properties.
Targets(IC50)	Annexin A
In vitro	In human retinal microvascular endothelial cells (RMVECs), administering LCKLSL at doses of 0 to 2 mg reduces plasmin production and decreases the activity of tissue plasminogen activator (tPA) stimulated by vascular endothelial growth factor (VEGF) under hypoxia conditions[1].
In vivo	Utilizing LCKLSL in two in vivo models (in chicken chorioallantoic membrane and murine Matrigel plug assays) for studying angiogenesis has shown to inhibit angiogenic responses. Administering the LCKLSL peptide considerably reduces vascular length. Furthermore, at a concentration of 5 μg/mL, it markedly diminishes vascular branch, junction, and end-point counts[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4795 mL	7.3977 mL	14.7953 mL
5 mM	0.2959 mL	1.4795 mL	2.9591 mL
10 mM	0.148 mL	0.7398 mL	1.4795 mL
50 mM	0.0296 mL	0.148 mL	0.2959 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

Mallika Valapala, et al. A Competitive Hexapeptide Inhibitor of Annexin A2 Prevents Hypoxia-Induced Angiogenic Events. J Cell Sci. 2011 May 1;124(Pt 9):1453-64.

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