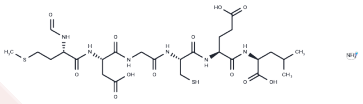
Data Sheet (Cat.No.TP1565L1)

TargetMol

Foxy-5 Ammonium Salt

Chemical Properties



CAS No. :

Formula: C26H46N7O12S2

Molecular Weight: 712.26

Storage: Store at low temperature,Keep away from moisture,
Store under nitrogen
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	Foxy-5 Ammonium Salt is a WNT5A agonist, a mimetic peptide of WNT5A, a non-classical member of the Wnt family.Foxy-5 Ammonium Salt triggers cytoplasmic free calcium signaling without affecting β-catenin activation and inhibits migration and invasion of epithelial cancer cells.Foxy-5 Foxy-5 Ammonium Salt effectively reduces the metastatic spread of prostate cancer cells with low WNT5A expression in an in situ mouse model.
Targets(IC50)	Wnt/beta-catenin
In vitro	Foxy-5 Ammonium Salt reduces the number of colonic cancer stem cells in a xenograft mouse model of human colonic cancer.[2] Foxy-5 Ammonium Salt effectively reduces the metastatic spread of WNT5A-low prostate cancer cells in an orthotopic mouse model.[1]

Solubility Information

Solubility	DMSO: 100 mg/mL (140.4 mM),Sonication is recommended. H2O: 6.66 mg/mL (9.35 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.404 mL	7.0199 mL	14.0398 mL
5 mM	0.2808 mL	1.404 mL	2.808 mL
10 mM	0.1404 mL	0.702 mL	1.404 mL
50 mM	0.0281 mL	0.1404 mL	0.2808 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

Canesin G, et al. Treatment with the WNT5A-mimicking peptide Foxy-5 effectively reduces the metastatic spread of WNT5A-low prostate cancer cells in an orthotopic mouse model. PLoS One. 2017;12(9):e0184418.
Osman J, et al. The WNT5A Agonist Foxy5 Reduces the Number of Colonic Cancer Stem Cells in a Xenograft Mouse Model of Human Colonic Cancer. Anticancer Res. 2019;39(4):1719-1728.
Canesin G, et al. Treatment with the WNT5A-mimicking peptide Foxy-5 effectively reduces the metastatic spread of WNT5A-low prostate cancer cells in an orthotopic mouse model. PLoS One. 2017;12(9):e0184418.
Kelsey R. Prostate cancer: Foxy-5 in prostate cancer model. Nat Rev Urol. 2017;14(11):638.