

FMK-MEA

Chemical Properties

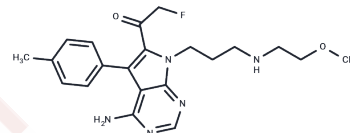
CAS No. : 1414811-15-6

Formula: C₂₁H₂₆N₅O₂

Molecular Weight: 399.46

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	FMK-MEA is a potent and selective inhibitor of p90 Ribosomal S6 Kinase (RSK).
Targets(IC50)	Others,S6 Kinase
In vitro	Treatment with FMK-MEA, a water-soluble derivative of fmk, effectively inhibits RSK2 kinase activity across a range of highly invasive human cancer cell lines, including 212LN, M4e, A549, and SKBR3. This RSK-specific inhibitor significantly reduces RSK2 activity in A549 cells, as evidenced by decreased phosphorylation levels of Ser-386, thereby diminishing their invasive capabilities.
In vivo	FMK-MEA administration at a dosage of 80 mg/kg/day via intraperitoneal injection over 16 days in xenograft nude mice with highly metastatic M4e cells does not alter the size or proliferation rate of the primary tumor. However, it significantly reduces lymph node (LN) metastasis.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5034 mL	12.5169 mL	25.0338 mL
5 mM	0.5007 mL	2.5034 mL	5.0068 mL
10 mM	0.2503 mL	1.2517 mL	2.5034 mL
50 mM	0.0501 mL	0.2503 mL	0.5007 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

Li D, et al. The prometastatic ribosomal S6 kinase 2-cAMP response element-binding protein (RSK2-CREB) signaling pathway up-regulates the actin-binding protein fascin-1 to promote tumor metastasis. J Biol Chem. 2013 Nov 8;288(45):32528-38.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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