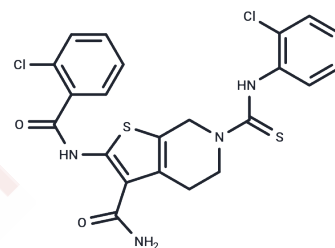


ADTL-EI1712

Chemical Properties

CAS No. : 2414916-45-1
 Formula: C₂₂H₁₈Cl₂N₄O₂S₂
 Molecular Weight: 505.44
 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	ADTL-EI1712 is a dual inhibitor of ERK1 and ERK5 (IC ₅₀ s = 40.43 and 64.5 nM, respectively). It reduces ERK1 and ERK5 activity by 93.5% and 89.4%, respectively, but also inhibits ERK2 activity by 92.7%, in a panel of 100 kinases at 1 μM. ADTL-EI1712 inhibits proliferation of HL-60 and MKN74, but not HeLa, cancer cells (IC ₅₀ s = 1.26, 2.55, and >50 μM, respectively). It reduces tumor growth and intratumor phosphorylation of ERK1/2 and ERK5 in an MKN74 mouse xenograft model when administered at a dose of 50 mg/kg per day.
Targets(IC ₅₀)	ERK,Others

Solubility Information

Solubility	DMF: 1 mg/mL (1.98 mM),Sonication is recommended. DMSO: 1 mg/mL (1.98 mM),Sonication is recommended. DMSO:PBS (pH 7.2) (1:3): 0.25 mg/mL (0.49 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	1.9785 mL	9.8924 mL	19.7847 mL
5 mM	0.3957 mL	1.9785 mL	3.9569 mL
10 mM	0.1978 mL	0.9892 mL	1.9785 mL
50 mM	0.0396 mL	0.1978 mL	0.3957 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

Wang, G., Zhao, Y., Liu, Y., et al. Discovery of a novel dual-target inhibitor of ERK1 and ERK5 that induces regulated cell death to overcome compensatory mechanism in specific tumor types. *J. Med. Chem.* 63(8)3976-3995(2020)

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481