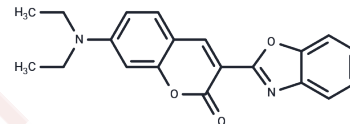


EMI1

Chemical Properties

CAS No. :	35773-42-3
Formula:	C ₂₀ H ₁₈ N ₂ O ₃
Molecular Weight:	334.37
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	EMI1 can be used in the mutant EGFR-associated, drug-resistant non-small-cell lung cancer(NSCLC) research. EMI1 is an inhibitor of EGFR L858R/T790M/C797S and EGFR ex19del/T790M/C797S [1].
Targets(IC50)	EGFR
In vitro	EMI1 (1 nM-100µM) significantly increase the caspase 3/7 activity and inhibits the viability and of PC9 EGFR ex19del/T790M/C797S triple-mutant cells than noncancerous human bronchial epithelial (HBE) cells. EMI1 inhibits growth of PC9 EGFR ex19del/T790M/C797S organoid with the EC50 of 131 nM. EMI1 (1 nM-10 µM) potently reduces the interaction of EGFR triple mutant with Shc1[1].

Solubility Information

Solubility	DMSO: 1.8 mg/mL (5.38 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	2.9907 mL	14.9535 mL	29.907 mL
5 mM	0.5981 mL	2.9907 mL	5.9814 mL
10 mM	0.2991 mL	1.4953 mL	2.9907 mL
50 mM	0.0598 mL	0.2991 mL	0.5981 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

Punit Saraon, et al. A drug discovery platform to identify compounds that inhibit EGFR triple mutants. Nat Chem Biol. 2020 May;16(5):577-586.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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