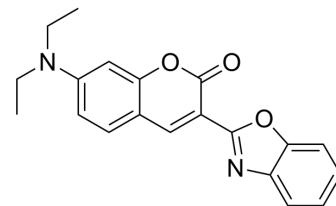


EMI1

Cat. No.:	HY-138072
CAS No.:	35773-42-3
Molecular Formula:	C ₂₀ H ₁₈ N ₂ O ₃
Molecular Weight:	334.37
Target:	EGFR
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (74.77 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		2.9907 mL	14.9535 mL	29.9070 mL
	5 mM		0.5981 mL	2.9907 mL	5.9814 mL
	10 mM		0.2991 mL	1.4953 mL	2.9907 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

EMI1 is an EGFR ex19del/T790M/C797S and EGFR L858R/T790M/C797S inhibitor. EMI1 can be used for the research of mutant EGFR-associated, drug-resistant non-small-cell lung cancer (NSCLC)^[1].

IC₅₀ & Target

EGFR^{del19 T790M C797S}

EGFR^{L858R/T790M/C797S}

In Vitro

EMI1 inhibits PC9 EGFR ex19del/T790M/C797S organoid growth with the EC₅₀ of 131 nM^[1].

EMI1 (1 nM-10 μM) potently reduces the interaction of EGFR triple mutant with Shc1^[1].

EMI1 (1 nM-100 μM) strongly inhibits the viability and increase the caspase 3/7 activity of PC9 EGFR ex19del/T790M/C797S triple-mutant cells than noncancerous human bronchial epithelial (HBE) cells^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay^[1]

Cell Line:	PC9 EGFR ex19del/T790M/C797S and HBE bronchial epithelial lung EGFR-WT control cells.
Concentration:	0.001, 0.01, 0.1, 1, 10, 100 μM
Incubation Time:	72 hours

Result:

Strongly inhibited the viability.

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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