JBJ-09-063 TFA

MedChemExpress

®

Cat. No.:HY-147183AMolecular Formula: $C_{33}H_{30}F_4N_4O_5S$ Molecular Weight:670.67Target:EGFRPathway:JAK/STAT Signaling; Protein Type	C ₃₃ H ₃₀ F ₄ N ₄ O ₅ S 670.67	
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	HO

SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (149.10 mM)
* "≥" means soluble, but saturation unknown.

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.4910 mL	7.4552 mL	14.9105 mL
	5 mM	0.2982 mL	1.4910 mL	2.9821 mL
	10 mM	0.1491 mL	0.7455 mL	1.4910 mL

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

BIOLOGICAL ACTIV	ИТҮ			
Description	EGFR L858R, EGFR L858R/T79 Akt and ERK1/2 phosphorylat	0M, EGFR L858R/T790M/C797S a	with IC ₅₀ s of 0.147 nM, 0.063 nM, nd EGFRLT/L747S. JBJ-09-063 TF cross EGFR tyrosine kinase inhibi EGFR-mutant lung cancer ^[1] .	A effectively reduces EGFR,
IC₅₀ & Target	EGFR L858R 0.147 nM (IC ₅₀)	EGFR L858R/T790M 0.063 nM (IC ₅₀)	EGFR L858R/T790M/C797S 0.083 nM (IC ₅₀)	EGFRLT/L747S 0.396 nM (IC ₅₀)
In Vitro	H3255GR cells are resistant to JBJ-09-063 is effective in H19	gefitinib as a single agent, as the 75 cells exogenously expressing t 0 nM and 6 nM in Ba/F3 cell when	d leads to a significant increase in ey contain an EGFR T790M mutat the osimertinib-resistant mutatio use alone or combination with <u>C</u> nethods. They are for reference on	ion ^[1] . ns ^[1] . Cetuximab (HY-P9905) ^[2] .
In Vivo	JBJ-09-063 (3 mg/kg i.v., 20 m good efficacy upon oral dosin		rmacokinetics properties and is s	sufficiently stable to deliver

Product Data Sheet

Animal Model:	Mice ^[2]	Mice ^[2] 3 mg/kg for i.v., 20 mg/kg for p.o.			
Dosage:	3 mg/kg for i.v., 20 n				
Administration:	i.v. and p.o.; single d	i.v. and p.o.; single dosage			
Result:	Pharmacokinetic Parameters of JBJ-09-063 in mice ^[2] .				
	Cl (mL/min/kg), i.v.	T _{1/2} (h)	V _{ss} (L/kg)	F (%)	AUC 8h (ng∙h/mL
	15.7	2.3	2.5	15	2398

REFERENCES

[1]. To C, et al. An allosteric inhibitor against the therapy-resistant mutant forms of EGFR in non-small cell lung cancer. Nat Cancer. 2022 Apr;3(4):402-417.

[2]. Gero TW, Scott DA, et al. Quinazolinones as allosteric fourth-generation EGFR inhibitors for the treatment of NSCLC. Bioorg Med Chem Lett. 2022 Jul 15;68:128718.

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

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