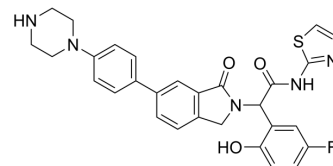


## (Rac)-JBJ-04-125-02

<b>Cat. No.:</b>	HY-135805A
<b>CAS No.:</b>	2140807-05-0
<b>Molecular Formula:</b>	C <sub>29</sub> H <sub>26</sub> FN <sub>3</sub> O <sub>3</sub> S
<b>Molecular Weight:</b>	543.61
<b>Target:</b>	EGFR
<b>Pathway:</b>	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK
<b>Storage:</b>	Powder    -20°C    3 years In solvent   -80°C    6 months -20°C    1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 250 mg/mL (459.89 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>			1 mg	5 mg
		1 mM		1.8396 mL	9.1978 mL
		5 mM		0.3679 mL	1.8396 mL
	10 mM		0.1840 mL	0.9198 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.08 mg/mL (3.83 mM); Suspended solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (3.83 mM); Suspended solution; Need ultrasonic				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.83 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	(Rac)-JBJ-04-125-02 is the racemate of JBJ-04-125-02. JBJ-04-125-02 is a potent, mutant-selective, allosteric and orally active EGFR inhibitor <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	EGFR (L858R/T790M) 0.26 nM (IC <sub>50</sub> )
<b>In Vitro</b>	JBJ-04-125-02 is a potent, mutant-selective, allosteric and orally active EGFR inhibitor with an IC <sub>50</sub> of 0.26 nM for EGFR L858R/T790M <sup>[1]</sup> .

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

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## REFERENCES

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[1]. To C, et al. Single and Dual Targeting of Mutant EGFR with an Allosteric Inhibitor. Cancer Discov. 2019 Jul;9(7):926-943.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA