

(Rac)-JBJ-04-125-02

## Chemical Properties

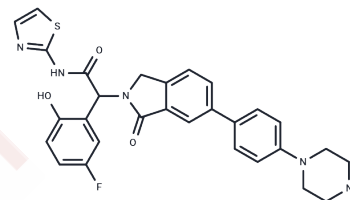
CAS No. : 2140807-05-0

Formula: C<sub>29</sub>H<sub>26</sub>FN<sub>5</sub>O<sub>3</sub>S

Molecular Weight: 543.61

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	(Rac)-JBJ-04-125-02 (JBJ-04-125-02) is effective as a single agent in both in vitro and in vivo models of EGFR-mutant lung cancer.
Targets(IC50)	EGFR
In vitro	(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 with an IC <sub>50</sub> of 0.26 nM for EGFR L858R/T790M[1].
In vivo	The combination of osimertinib and JBJ-04-125-02 is a significantly more effective treatment approach than either agent alone[1].
Animal Research	Ba/F3, H1975, H3255GR and H3255DR cells were treated with increasing concentrations of inhibitors for 72 hours and growth or the inhibition of growth was assessed by MTS assay according to previously established methods.

## Solubility Information

Solubility	DMSO: 250 mg/mL (459.89 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

### Preparing Stock Solutions

---

	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.8396 mL	9.1978 mL	18.3955 mL
5 mM	0.3679 mL	1.8396 mL	3.6791 mL
10 mM	0.184 mL	0.9198 mL	1.8396 mL
50 mM	0.0368 mL	0.184 mL	0.3679 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

Single and Dual Targeting of Mutant EGFR with an Allosteric Inhibitor

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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