Befotertinib

Cat. No.: HY-137433

CAS No.: 1835667-63-4

Molecular Formula: $C_{29}H_{32}F_3N_7O_2$

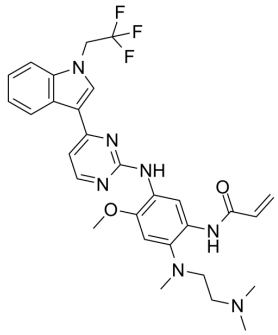
Molecular Weight: 567.61

Target: EGFR

Pathway: JAK/STAT Signaling; Protein Tyrosine Kinase/RTK

Storage:

Powder	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (88.09 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.7618 mL	8.8089 mL	17.6177 mL
	5 mM	0.3524 mL	1.7618 mL	3.5235 mL
	10 mM	0.1762 mL	0.8809 mL	1.7618 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.08 mg/mL (3.66 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (3.66 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Befotertinib (D-0316) is the third-generation EGFR tyrosine kinase inhibitor. Befotertinib can be used for the research of EGFR T790M-positive non-small cell lung cancer (NSCLC)[1].

IC_{50} & Target

EGFR tyrosine kinase[1]

REFERENCES

[1]. Nagasaka M, et, al. Beyond Osimertinib: The Development of Third-Generation EGFR Tyrosine Kinase Inhibitors For Advanced EGFR+ NSCLC. J Thorac Oncol. 2021 May;16(5):740-763.

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

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