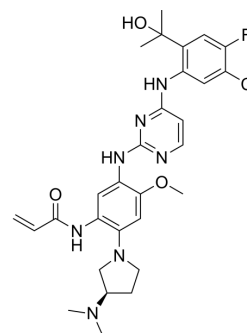


Sunvozetinib

Cat. No.:	HY-132842		
CAS No.:	2370013-12-8		
Molecular Formula:	C ₂₉ H ₃₅ ClFN ₇ O ₃		
Molecular Weight:	584.08		
Target:	EGFR; Btk		
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 (85.60 mM); ultrasonic and warming and heat to 80°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.7121 mL	8.5605 mL	17.1209 mL
5 mM	0.3424 mL	1.7121 mL	3.4242 mL
10 mM	0.1712 mL	0.8560 mL	1.7121 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (4.28 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: 2.5 mg/mL (4.28 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (4.28 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Sunvozetinib (DZD9008) is a potent ErbBs (EGFR, Her2, especially mutant forms) and BTK inhibitor. Sunvozetinib shows IC₅₀s of 20.4, 20.4, 1.1, 7.5, and 80.4 nM for EGFR exon 20 NPH insertion, EGFR exon 20 ASV insertion, EGFR L858R and T790M mutations, and Her2 Exon20 YVMA, and EGFR WT A431, respectively (patent WO2019149164A1, example 52)^[1].

IC₅₀ & Target

EGFR exon 20 insertion 20.4 nM (IC ₅₀)	EGFR ^{L858R/T790M} 1.1 nM (IC ₅₀)	Her2 Exon20 YVMA 7.5 nM (IC ₅₀)
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In Vitro

Sunvozetinib shows GI₅₀s of 60.4, 83.2, 3.3, 101.3, and 47.1 nM for EGFR exon NPH insertion, EGFR exon 20 ASV insertion,

EGFR L858R and T790M mutations, and Her2 Exon20 YVMA, and EGFR WT A431, respectively. Sunvozertinib shows GI₅₀s of 3.2, 5.8, 51.3, and 1983.5 nM for BTK WT OCI-LY-10, BTK WT TMD-8, BTK WT Ri-1, and non-BCR activated DB, respectively^[1]. Sunvozertinib inhibits p-BTK with IC₅₀ of 1.6 nM^[1].

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

REFERENCES

[1]. Zhengtao LI, et al. Erbb/btk inhibitors. WO2019149164A1.

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

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