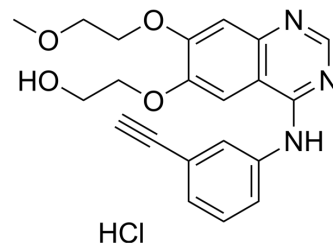


Desmethyl Erlotinib hydrochloride

Cat. No.:	HY-13256
CAS No.:	183320-51-6
Molecular Formula:	C ₂₁ H ₂₂ ClN ₃ O ₄
Molecular Weight:	415.87
Target:	Drug Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (120.23 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		2.4046 mL	12.0230 mL	24.0460 mL
		5 mM		0.4809 mL	2.4046 mL	4.8092 mL
10 mM		0.2405 mL	1.2023 mL	2.4046 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: ≥ 2.5 mg/mL (6.01 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.01 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Desmethyl Erlotinib hydrochloride (OSI-420) is an active metabolite of Erlotinib. Erlotinib is a potent EGFR tyrosin kinase inhibitor ^[1] . Desmethyl Erlotinib (hydrochloride) is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.
In Vivo	Desmethyl Erlotinib exhibits t _{1/2} of 11.96±2.01 h in a pharmacokinetic study in Wistar rats ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

-
- Pharmacol Res. 2023 Mar 10;106724.
 - Cell Rep. 2023 Mar 20;42(3):112275.
 - Eur J Pharm Sci. 2019 May 15;133:145-159.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Thappali SR, et al. Simultaneous Determination of Celecoxib, Erlotinib, and its Metabolite Desmethyl-Erlotinib (OSI-420) in Rat Plasma by Liquid chromatography/Tandem Mass Spectrometry with Positive/Negative Ion-Switching Electrospray Ionisation. Sci Pharm. 2012 Jul-Sep;80(3):633-46.

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

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