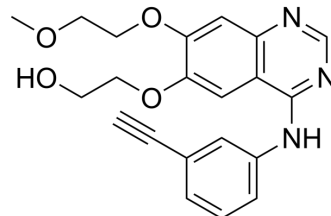


Desmethyl Erlotinib

Cat. No.:	HY-13256A		
CAS No.:	183321-86-0		
Molecular Formula:	C ₂₁ H ₂₁ N ₃ O ₄		
Molecular Weight:	379.41		
Target:	Drug Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (329.46 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions	1 mM	2.6357 mL	13.1784 mL
		5 mM	0.5271 mL	2.6357 mL
		10 mM	0.2636 mL	1.3178 mL
	Please refer to the solubility information to select the appropriate solvent.			
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.48 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.48 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.48 mM); Clear solution 			

BIOLOGICAL ACTIVITY

Description	Desmethyl Erlotinib (OSI-420 free base) is an active metabolite of Erlotinib. Erlotinib is a potent EGFR tyrosin kinase inhibitor [1]. Desmethyl Erlotinib 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.

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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.

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