Almonertinib hydrochloride

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®

Cat. No.:	HY-112823B			
CAS No.:	2134096-03-8			
Molecular Formula:	$C_{30}H_{36}CIN_{7}O_{2}$			
Molecular Weight:	562.11			
Target:	EGFR	N Q I		
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK	H–CI		
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

		Solvent Mass	1 mg	5 mg	10 mg		
	Preparing	Concentration 1 mM	1.7790 mL	8.8951 mL	17.7901 mL		
	Stock Solutions	5 mM	0.3558 mL	1.7790 mL	3.5580 mL		
		10 mM	0.1779 mL	0.8895 mL	1.7790 mL		
	Please refer to the sol	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 (3.70 mM); Clear solution					
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.70 mM); Clear solution					
	3. Add each solvent o	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.70 mM); Clear solution					

BIOLOGICAL ACTIVITY							
Description	Almonertinib (HS-10296) hydrochloride is an orally available, irreversible, third-generation EGFR tyrosine kinase inhibitor with high selectivity for EGFR-sensitizing and T790M resistance mutations. Almonertinib hydrochloride shows great inhibitory activity against T790M, T790M/L858R and T790M/Del19 (IC ₅₀ : 0.37, 0.29 and 0.21 nM, respectively), and is less effective against wild type (3.39 nM). Almonertinib hydrochloride is used for the research of the non-small cell lung cancer ^[1] .						
IC ₅₀ & Target	EGFR ^{T790M} 0.37 nM (IC ₅₀)	EGFR ^{L858R/T790M} 0.29 mM (IC ₅₀)	EGFR ^{del19 T790M} 0.214 nM (IC ₅₀)				

In Vitro

Almonertinib (HS-10296) is an orally available inhibitor of the epidermal growth factor receptor (EGFR) mutant form T790M, with potential antineoplastic activity, which canbe used to treat NSCLC^[2]. Additionaly, Almonertinib (HS-10296) could also inhibit other EGFR sensitive mutations, including G719X, del19, L858R and L861Q^[3].

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

CUSTOMER VALIDATION

- Cell Rep Med. 2023 Jan 10;100911.
- Front Pharmacol. 2021 May 14;12:671328.
- Patent. US20220177473A1.

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REFERENCES

[1]. Sullivan I, et al. Next-Generation EGFR Tyrosine Kinase Inhibitors for Treating EGFR-Mutant Lung Cancer beyond First Line. Front Med (Lausanne). 2017 Jan 18;3:76.

[2]. Wu SG, et al. Management of acquired resistance to EGFR TKI-targeted therapy in advanced non-small cell lung cancer. Mol Cancer. 2018 Feb 19;17(1):38.

[3]. Yang JC, et al. Safety, Efficacy, and Pharmacokinetics of Almonertinib (HS-10296) in Pretreated Patients With EGFR-Mutated Advanced NSCLC: A Multicenter, Openlabel, Phase 1 Trial [published online ahead of print, 2020 Sep 9]. J Thorac Oncol. 2020;S1556-0

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

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