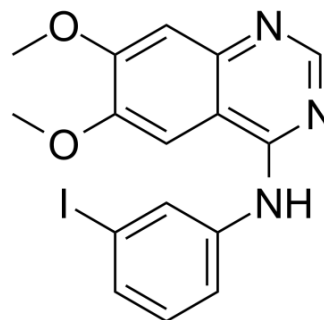


AG1557

Cat. No.:	HY-12806
CAS No.:	189290-58-2
Molecular Formula:	C ₁₆ H ₁₄ IN ₃ O ₂
Molecular Weight:	407.21
Target:	EGFR
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro	DMSO : 83.33 mg/mL (204.64 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	2.4557 mL	12.2787 mL	24.5574 mL
				5 mM	0.4911 mL	2.4557 mL	4.9115 mL
				10 mM	0.2456 mL	1.2279 mL	2.4557 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 (5.11 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.11 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.11 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	AG1557 is a specific and ATP competitive inhibitor of epidermal growth factor receptor (EGFR) tyrosine kinase, has a pIC ₅₀ value of 8.194 ^{[1][2]} .
IC ₅₀ & Target	pIC: 8.194 (EGFR) ^[2]

REFERENCES

[1]. Akshada Joshi, et al. Identification of Potential Novel EGFR Inhibitors using a Combination of Pharmacophore and Docking Methods. International Journal of Pharmacy

[2]. Ellis AG, et al. High-performance liquid chromatographic analysis of the tyrphostin AG1478, a specific inhibitor of the epidermal growth factor receptor tyrosine kinase, in mouse plasma. J Chromatogr B Biomed Sci Appl. 2001 Apr 15;754(1):193-9.

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

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