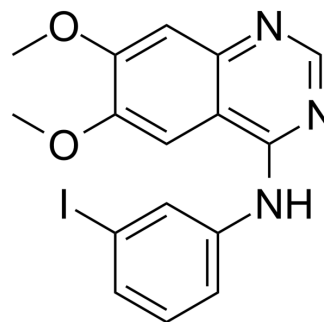


AG1557

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:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 83.33 mg/mL (204.64 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg			5 mg			10 mg		
			Concentration			Concentration			Concentration		
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

- 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
- 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
- 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 pIC₅₀ value of 8.194^{[1][2]}.

IC₅₀ & 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 and Pharmaceutical Sciences, ISSN- 0975-1491 Vol 7, Issue 6, 2015

[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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