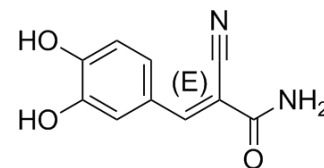


(E)-AG 99

Cat. No.:	HY-100962		
CAS No.:	122520-85-8		
Molecular Formula:	C ₁₀ H ₈ N ₂ O ₃		
Molecular Weight:	204.18		
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 : 165 mg/mL (808.11 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.8976 mL	24.4882 mL	48.9764 mL
	5 mM	0.9795 mL	4.8976 mL	9.7953 mL
	10 mM	0.4898 mL	2.4488 mL	4.8976 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: ≥ 2.75 mg/mL (13.47 mM); Clear solution
- Add each solvent one by one: **10% DMSO >> 90% (20% SBE-β-CD in saline)**
Solubility: ≥ 2.75 mg/mL (13.47 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	(E)-AG 99 ((E)-Tyrphostin 46) is a potent EGFR inhibitor ^[1] .
IC ₅₀ & Target	EGFR
In Vitro	(E)-AG 99 effectively blocks tyrosine phosphorylation of p145 ^{met} and promotes cell death accompanied by activation of caspase-like proteases ^[1] .

REFERENCES

[1]. Yamamoto N, et al. Tyrosine phosphorylation of p145met mediated by EGFR and Src is required for serum-independent survival of human bladder carcinoma cells. J Cell Sci. 2006 Nov 15;119(Pt 22):4623-33.

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

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