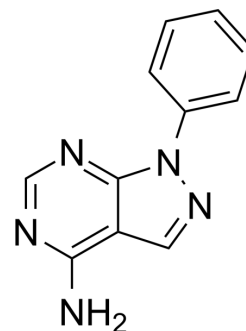


PP 3

Cat. No.:	HY-108484		
CAS No.:	5334-30-5		
Molecular Formula:	C ₁₁ H ₉ N ₅		
Molecular Weight:	211.22		
Target:	EGFR		
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (473.44 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.7344 mL	23.6720 mL	47.3440 mL
	5 mM	0.9469 mL	4.7344 mL	9.4688 mL
	10 mM	0.4734 mL	2.3672 mL	4.7344 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: ≥ 2.5 mg/mL (11.84 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.5 mg/mL (11.84 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (11.84 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

PP 3 (Compound 3) is an EGFR tyrosine kinase inhibitor with an IC₅₀ of 2.7 μM^[1].

REFERENCES

[1]. Traxler P, et al. Use of a pharmacophore model for the design of EGF-R tyrosine kinase inhibitors: 4-(phenylamino)pyrazolo[3,4-d]pyrimidines. J Med Chem. 1997 Oct

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

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