EGFR/ErbB-2/ErbB-4 inhibitor-2

Cat. No.: HY-112420

CAS No.: 179248-61-4

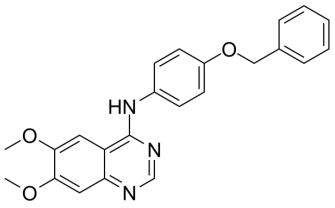
Molecular Formula: $C_{23}H_{21}N_3O_3$

Molecular Weight: 387.43

Target: EGFR

Pathway: JAK/STAT Signaling; Protein Tyrosine Kinase/RTK

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 33.33 mg/mL (86.03 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.5811 mL	12.9056 mL	25.8111 mL
	5 mM	0.5162 mL	2.5811 mL	5.1622 mL
	10 mM	0.2581 mL	1.2906 mL	2.5811 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (6.45 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

EGFR/ErbB-2/ErbB-4 inhibitor-2 (Compound 5) is a EGFR and ErbB inhibitor with IC_{50}s of 0.017 μM, 0.08 μM, 1.91 μM[1].

IC_{50} & Target

EGFR	ErbB2	ErbB4
0.017 μM (IC_{50})	0.08 μM (IC_{50})	1.91 μM (IC_{50})

In Vitro

EGFR/ErbB-2/ErbB-4 inhibitor-2 (Compound 5) also inhibits c-Src, VEGFR2, c-Fms and with IC_{50}s of 0.30, 2.2, and 14.0 μM, respectively[1].

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

REFERENCES

[1]. Perry S Brignola, et al. Comparison of the biochemical and kinetic properties of the type 1 receptor tyrosine kinase intracellular domains. Demonstration of differential

sensitivity to kinase inhibitors. J Biol Chem. 2002 Jan 11;277(2):1576-85.

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