EGFR/ErbB-2/ErbB-4 inhibitor-3

Cat. No.: HY-103440

CAS No.: 881001-19-0

Molecular Formula: $C_{17}H_{11}ClFN_5O$

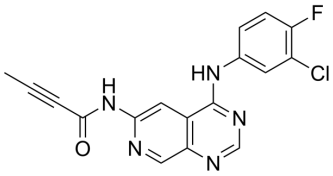
Molecular Weight: 355.75

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 : 25 mg/mL (70.27 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.8110 mL	14.0548 mL	28.1096 mL
	5 mM	0.5622 mL	2.8110 mL	5.6219 mL
	10 mM	0.2811 mL	1.4055 mL	2.8110 mL

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

BIOLOGICAL ACTIVITY

Description

EGFR/ErbB-2/ErbB-4 inhibitor-3 (compound 29) is a potent tyrosine kinase inhibitor with IC_{50}s of 0.3, 1.1, 0.5, 2.5, 24 nM for erbB1, erbB2, erbB4, EGF, HER, respectively[1]. EGFR/ErbB-2/ErbB-4 inhibitor-3 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.

IC_{50} & Target

ErbB2 1.1 nM (IC_{50})	ErbB1 0.3 nM (IC_{50})	ErbB4 0.5 nM (IC_{50})	EGFR 2.5 nM (IC_{50})
HER 24 nM (IC_{50})			

REFERENCES

[1]. Klutchko SR, et al. Tyrosine kinase inhibitors. 19. 6-Alkynamides of 4-anilinoquinazolines and 4-anilinopyrido[3,4-d]pyrimidines as irreversible inhibitors of the erbB family of tyrosine kinase receptors. J Med Chem. 2006 Feb 23;49(4):1475-85.

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