pan-HER-IN-2

Cat. No.: HY-144677

CAS No.: 1639040-95-1

Molecular Formula: $C_{19}H_{15}BrClN_5O$

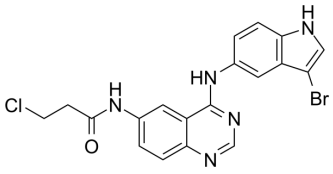
Molecular Weight: 444.71

Target: EGFR; Apoptosis

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

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 : 100 mg/mL (224.87 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.2487 mL	11.2433 mL	22.4866 mL
5 mM	0.4497 mL	2.2487 mL	4.4973 mL
10 mM	0.2249 mL	1.1243 mL	2.2487 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 2.5 mg/mL (5.62 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

pan-HER-IN-2 (Compound C6) is a reversible, orally active pan-HER inhibitor with IC_{50} values of 0.72, 2.0, 8.2 and 75.1 nM against EGFR, HER4, $EGFR^{T790M/L858R}$ and HER2, respectively. pan-HER-IN-2 induces apoptosis and shows antitumor activities[1].

IC_{50} & Target

EGFR	HER4	EGFR (L858R/T790M)	HER2
0.72 nM (IC_{50})	2.0 nM (IC_{50})	8.2 nM (IC_{50})	75.1 nM (IC_{50})

REFERENCES

[1]. Tang Q, et al. Discovery of N-(3-bromo-1H-indol-5-yl)-quinazolin-4-amine as an effective molecular skeleton to develop reversible/irreversible pan-HER inhibitors. Eur J

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