Bisindolylmaleimide X hydrochloride

Cat. No.: HY-108136A

CAS No.: 145317-11-9

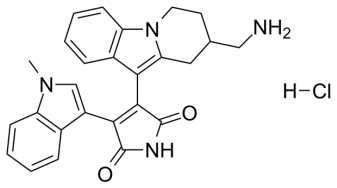
Molecular Formula: $C_{26}H_{25}ClN_4O_2$

Molecular Weight: 460.96

Target: PKC; CDK

Pathway: Epigenetics; TGF-beta/Smad; Cell Cycle/DNA Damage

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 20.83 mg/mL (45.19 mM; Need ultrasonic)
H_2O : < 0.1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.1694 mL	10.8469 mL	21.6939 mL
5 mM	0.4339 mL	2.1694 mL	4.3388 mL
10 mM	0.2169 mL	1.0847 mL	2.1694 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: ≥ 2.08 mg/mL (4.51 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Bisindolylmaleimide X hydrochloride (BIM-X hydrochloride) is a potent and selective protein kinase C (PKC) inhibitor. Bisindolylmaleimide X hydrochloride is a potent cyclin-dependent kinase 2 (CDK2) antagonist with an IC_{50} of 200 nM[1].

IC_{50} & Target

PKC	CDK2 200 nM (IC_{50})

In Vitro

Bisindolylmaleimide X hydrochloride (BIM-X hydrochloride; Ro31-8425 hydrochloride) derivatives acts as an useful tool to compare inhibitor potencies and selectivities for a target of interest[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cell Chem Biol. 2022 Jun 9;S2451-9456(22)00201-X.

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REFERENCES

[1]. Brehmer D, et al. Proteome-wide identification of cellular targets affected by bisindolylmaleimide-type protein kinase C inhibitors. Mol Cell Proteomics. 2004 May;3(5):490-500.

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