

## CDK2/PIM1-IN-1

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	CDK2/PIM1-IN-1 is an inhibitor of the kinases CDK2 (IC50: 0.27 $\mu$ M) and PIM1 (IC50: 0.67 $\mu$ M). It can induce apoptosis (cell death) and reduce the expression of TNF- $\alpha$ , which promotes tumors. CDK2/PIM1-IN-1 exhibits antitumor activity.
Targets(IC50)	CDK,Pim
In vitro	CDK2/PIM1-IN-1 (Compound 6b) exhibits antiproliferative effects on MCF7 (IC50: 5.54 $\mu$ M), HCT-116 (IC50: 2.62 $\mu$ M), HepG2 (IC50: 3.99 $\mu$ M), and HeLa cell lines (IC50: 8.31 $\mu$ M), with moderate safety in normal breast cell line MCF-10A (IC50: 39.44 $\mu$ M). In HCT116 cells, CDK2/PIM1-IN-1 (24 hours) inhibits the G0-G1 phase (%G0-G1: 83.43%) and induces significant early (8.28%) and late (20.09%) apoptosis. It also inhibits CDK (IC50: 0.27 $\mu$ M) and PIM1 (IC50: 0.67 $\mu$ M) within the HCT116 cell line.
In vivo	CDK2/PIM1-IN-1 (Compound 6b), administered at 10 mg/kg intraperitoneally three times a week for two weeks, effectively reduces tumor volume by 71.42% and tumor weight by 70.58% in a solid Ehrlich carcinoma (SEC) mouse model while demonstrating good tolerability.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286

E\_mail:info@targetmol.com

Address:34 Washington Street,Wellesley Hills,MA 02481