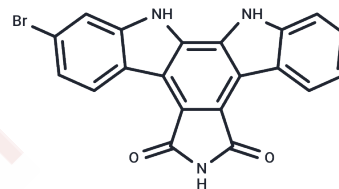


## Cdk4 Inhibitor

## Chemical Properties

CAS No. :	546102-60-7
Formula:	C <sub>20</sub> H <sub>10</sub> BrN <sub>3</sub> O <sub>2</sub>
Molecular Weight:	404.2
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	PD 0332991, an unsymmetrical indolocarbazole compound, is cell-permeable and exhibits antiproliferative effects by functioning as a potent, selective, reversible, and ATP-competitive inhibitor of Cdk4/D1 (IC <sub>50</sub> = 76 nM). Although it can inhibit other Cdks, such as Cdk2/E and Cdk1/B, effectiveness requires higher concentrations (IC <sub>50</sub> = 520 nM and 2.1 μM, respectively) and demonstrates minimal activity against CaMKII, PKA, or GSK-3β (IC <sub>50</sub> ≥ 12.4 μM). PD 0332991 efficiently inhibits tumor cell growth in HCT-116 and NCI-H460 cell lines with an IC <sub>50</sub> < 3.0 μM, primarily through blocking Rb phosphorylation and inducing G1 cell cycle arrest.
Targets(IC <sub>50</sub> )	Others,CDK

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.474 mL	12.3701 mL	24.7402 mL
5 mM	0.4948 mL	2.474 mL	4.948 mL
10 mM	0.2474 mL	1.237 mL	2.474 mL
50 mM	0.0495 mL	0.2474 mL	0.4948 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481