



Product Information

CDK inhibitor THZ2, Purity ≥98%

Cat. No.: X24-05-ZQ829

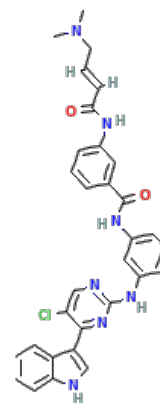
Size: 5 mg; 10 mg; 50 mg; 100 mg

CAS Number: 1604810-84-5

Compound CID: 78357763

Synonym: 1604810-84-5; THZ 2; THZ-2; CDK inhibitor

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	THZ2, soluble in DMSO, water and ethanol, is an CDK kinase inhibitor that disrupts cell division processes. It targets CDK1, CDK2, CDK5, and CDK7.
Molecular Weight	566.05
Molecular Formula	C ₃₁ H ₂₈ ClN ₇ O ₂
Targets	CDK1: 96.9 nM; CDK2: 222 nM; CDK5: 134 nM; CDK7: 13.9 nM
IUPAC Name	<i>N</i> -[3-[[5-chloro-4-(1 <i>H</i> -indol-3-yl)pyrimidin-2-yl]amino]phenyl]-3-[[<i>E</i>]-4-(dimethylamino)but-2-enoyl]amino]benzamide
InChI	InChI=1S/C31H28ClN7O2/c1-39(2)15-7-14-28(40)35-21-9-5-8-20(16-21)30(41)36-22-10-6-11-23(17-22)37-31-34-19-26(32)29(38-31)25-18-33-27-13-4-3-12-24(25)27/h3-14,16-19,33H,15H2,1-2H3,(H,35,40)(H,36,41)(H,34,37,38)/b14-7+
InChI Key	FONRCZUZCHXWBD-VGOFMYFVSA-N
Canonical SMILES	<chem>CN(C)CC=CC(=O)NC1=CC=CC(=C1)C(=O)NC2=CC=CC(=C2)NC3=NC=C(C(=N3)C4=CNC5=CC=CC=C54)Cl</chem>
Isomeric SMILES	<chem>CN(C)C/C=C/C(=O)NC1=CC=CC(=C1)C(=O)NC2=CC=CC(=C2)NC3=NC=C(C(=N3)C4=CNC5=CC=CC=C54)Cl</chem>
Form	Lyophilized powder
Purity	≥98%
Solubility	DMSO: 93 mg/mL (164.29 mM); Water: <1 mg/mL; Ethanol: <1 mg/mL
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.



Applications

THZ2 is utilized to study covalent inhibition of CDK7 and its impact on transcription and cancer cell proliferation.

Storage

Store at -20°C.
