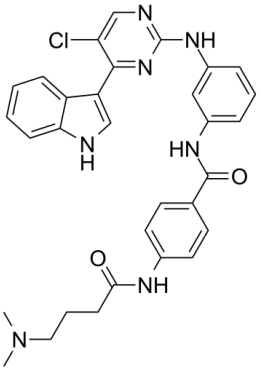
Data Sheet

Product Name:	THZ1-R
Cat. No.:	CS-5563
CAS No.:	1621523-07-6
Molecular Formula:	C31H30ClN7O2
Molecular Weight:	568.07
Target:	CDK
Pathway:	Cell Cycle/DNA Damage
Solubility:	DMSO : ≥ 100 mg/mL (176.03 mM); H2O : < 0.1 mg/mL (insoluble)



BIOLOGICAL ACTIVITY:

THZ1-R is an inhibitor of **CDK7**, with an **IC_{50}** of 146 nM. IC50 & Target: IC50: 146 nM (CDK7)[1] **In Vitro:** THZ1-R shows lower affinity at CDK7 than THZ1, with IC_{50} of 146 nM[1].

PROTOCOL (Extracted from published papers and Only for reference)

Cell Assay: THZ1-R is dissolved in DMSO.[1]Cells are seeded in 384-well microplates at 15% confluency in medium with 5% FBS and penicillin/streptavidin. Cells are treated with THZ1 or DMSO for 72 hrs and cell viability is determined using resazurin.

References:

[1]. Kwiatkowski N, et al. Targeting transcription regulation in cancer with a covalent CDK7 inhibitor. Nature. 2014 Jul 31;511(7511):616-20.

CAIndexNames:

Benzamide, N-[3-[[5-chloro-4-(1H-indol-3-yl)-2-pyrimidinyl]amino]phenyl]-4-[[4-(dimethylamino)-1-oxobutyl]amino]-

SMILES:

ClC1=CN=C(NC2=CC(NC(C3=CC=C(NC(CCCN(C)C)=O)C=C3)=O)=CC=C2)N=C1C4=CNC5=CC=CC=C54

Caution: Product has not been fully validated for medical applications. For research use only.

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