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Product Datasheet

THZ1, CAS [[1604810-83-4]] FBM-10-4120

Article Name	THZ1, CAS [[1604810-83-4]]
Biozol Catalog Number	FBM-10-4120
Supplier Catalog Number	10-4120
Alternative Catalog Number	FBM-10-4120-5MG,FBM-10-4120-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	CDK7 inhibitor...
Molecular Weight	566.05
Purity	97% by HPLC
Form	Tan solid
CAS Number	[1604810-83-4]
Formula	C31H28CIN7O2

Application Notes

THZ1 is an irreversible, covalent inhibitor (dual ATP-site and allosteric covalent binding) of CDK7 (IC₅₀ = 15.6nM 20min and 3.2nM 180 min).¹ It displayed broad based antiproliferative activity with IC₅₀s of less than 200nM against 53% of the 1000 cancer cell lines it was tested against. THZ1 disrupts transcription of several proteins including RUNX1, TAL1, and GATA3. It suppresses oncogenic transcription of MYCN-driven cancers.² THZ1 decreases STAT3 chromatin binding and expression of target genes such as MYC, PIM1, and others in peripheral T-Cell lymphoma cells with the Y640F STAT3 mutation.³ Addition of THZ1 to targeted cancer therapy increases cell death and hinders the development of drug-resistant cell populations in cellular and in vitro cancer models.⁴