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Product Datasheet

Milciclib FBM-10-4867

Article Name	Milciclib
Biozol Catalog Number	FBM-10-4867
Supplier Catalog Number	10-4867
Alternative Catalog Number	FBM-10-4867-5MG,FBM-10-4867-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	CDK inhibitor...
Molecular Weight	460.59
Purity	>98% by HPLC NMR (Conforms)
Form	Yellow solid
CAS Number	[802539-81-7]
Formula	C ₂₅ H ₃₂ N ₈ O

Application Notes	Milciclib is a potent inhibitor of cyclin-dependent kinases (IC50s: CDK1 = 398 nM, CDK2 = 45 nM, CDK4 = 160 nM, CDK5 = 265 nM, CDK7 = 150 nM).¹ It is also a potent inhibitor of TRKA and C (IC50 = A, 53 nM, C, 134 nM). Milciclib displayed antitumor activity across multiple cancer cell lines including lymphoma, colon, kidney, ovarian, NSCLC, neuroblastoma, and osteosarcoma.² It was also active in various human cancer xenograft and other models. It showed antitumor activity in malignant glioma cells and acted synergistically with temozolomide.³ Milciclib displayed efficacy in combination with gemcitabine in patients with refractory solid tumors.⁴ It blocked glucose consumption in H460 and H1975 cells by decreasing SLC2A1 mRNA and protein levels and inhibiting glucose transport via CDK7 inhibition.⁵
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