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Product Datasheet

ZT-1a, CAS [[212135-62-1]] FBM-10-4402

Article Name	ZT-1a, CAS [[212135-62-1]]
Biozol Catalog Number	FBM-10-4402
Supplier Catalog Number	10-4402
Alternative Catalog Number	FBM-10-4402-5MG,FBM-10-4402-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	SPAK kinase inhibitor...
Molecular Weight	445.72
Purity	>98% by HPLC NMR (Conforms)
Form	Off-white solid
CAS Number	[212135-62-1]
Formula	C22H15Cl3N2O2
Application Notes	ZT-1a is a non-ATP competitive inhibitor (IC ₅₀ = 44.3 μM 0.01 mM ATP) of SPAK kinase (STK39), a master regulator of cation-Cl ⁻ cotransporters. ¹ It attenuated cerebral edema, protected against ischemic brain damage, and improved post-ischemic neurological outcomes in mouse models of stroke. ^{1,2} ZT-1a showed neuroprotective effects in mouse models of vascular dementia ³ and multiple sclerosis ⁴ . It inhibited the progression of hepatocellular carcinoma in rodent models and showed synergistic effects with PD-1 antibodies by helping to prevent tumor microenvironment immune exhaustion. ⁵