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Product Datasheet

M22, CAS [[864420-54-2]]
FBM-10-5733

Article Name	M22, CAS [[864420-54-2]]
Biozol Catalog Number	FBM-10-5733
Supplier Catalog Number	10-5733
Alternative Catalog Number	FBM-10-5733-5MG,FBM-10-5733-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	NEDD8 activating enzyme inhibitor...
Molecular Weight	363.33
Purity	>98% by TLC NMR (Conforms)
Form	Off-white solid
CAS Number	[864420-54-2]
Formula	C20H24Cl2N2

Application Notes	Protein neddylation is a post-translational modification which transfers the ubiquitin-like protein NEDD8 to a lysine residue of the target substrate through a three-step enzymatic cascade and has been considered as a viable target for the development of new therapeutics for cancer.1 M22 (CAS 864420-54-2) is an inhibitor of NEDD8 activating enzyme (NAE) which was discovered by virtual screening of a small molecule library (50,000 compounds) against the active site of NAE.2 M22 is selective and reversible and inhibits NEDDylation of ubiquitin-conjugating enzyme 12 (UBC12) in a cell-free assay employing recombinant human NAE. It selectively inhibits NEDDylation over SUMOylation and ubiquitination in A549 cells and inhibits their growth (GI50 = 5.5 μM). It has been shown to inhibit tumor growth in a mouse xenograft model (at 60 mg/kg).2