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Product Datasheet

M22 **FBM-10-5733**

Artikelname	M22
Artikelnummer	FBM-10-5733
Hersteller Artikelnummer	10-5733
Alternativnummer	FBM-10-5733-5MG,FBM-10-5733-25MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	NEDD8 activating enzyme inhibitor...
Molekulargewicht	363.33
Reinheit	>98% by TLC NMR (Conforms)
Formulierung	Off-white solid
CAS Nummer	[864420-54-2]
Formel	C ₂₀ H ₂₄ Cl ₂ N ₂

Anwendungsbeschreibung

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 μ M). It has been shown to inhibit tumor growth in a mouse xenograft model (at 60 mg/kg).²