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Product Datasheet

Toyocamycin, CAS [[606-58-6]] **FBM-10-2750**

Artikelname	Toyocamycin, CAS [[606-58-6]]
Artikelnummer	FBM-10-2750
Hersteller Artikelnummer	10-2750
Alternativnummer	FBM-10-2750-5MG, FBM-10-2750-25MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	Unfolded protein response (UPR) inhibitor...
Molekulargewicht	291.26
Reinheit	97% by TLC, NMR (Conforms)
Formulierung	White or off-white solid
CAS Nummer	[606-58-6]
Formel	C ₁₂ H ₁₃ N ₅ O ₄

Anwendungsbeschreibung	An adenosine analog which inhibits ribozyme self cleavage in mammalian cells, EC50 = 0.4 M (for expression of a luciferase reporter)¹. A potent inhibitor of ER stress-induced XBP1 mRNA splicing². It suppresses thapsigargin-, tunicamycin- and 2-deoxyglucose-induced XBP1 mRNA splicing in HeLa cells without affecting ATF6 and PERK activation. Although unable to inhibit IRE1 phosphorylation, it prevented IRE1-induced XBP1 mRNA cleavage in vitro. It inhibits not only ER stress-induced but also constitutive activation of XBP1 expression in multiple myeloma cell lines as well as in primary patient samples². Displays synergistic effects with bortezomib. Inhibits unfolded protein response and induces apoptosis in pancreatic cancer cells³.
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