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Product Datasheet

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

Article Name	Toyocamycin, CAS [[606-58-6]]
Biozol Catalog Number	FBM-10-2750
Supplier Catalog Number	10-2750
Alternative Catalog Number	FBM-10-2750-5MG,FBM-10-2750-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Unfolded protein response (UPR) inhibitor...
Molecular Weight	291.26
Purity	97% by TLC, NMR (Conforms)
Form	White or off-white solid
CAS Number	[606-58-6]
Formula	C12H13N5O4

Application Notes	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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