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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.