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Product Datasheet

4mu8C FBM-10-1579

Article Name	4mu8C
Biozol Catalog Number	FBM-10-1579
Supplier Catalog Number	10-1579
Alternative Catalog Number	FBM-10-1579-5MG,FBM-10-1579-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	IRE1 ribonuclease inhibitor...
Molecular Weight	204.18
Purity	97% by TLC NMR (Conforms)
Form	Yellow solid
CAS Number	[14003-96-4]
Formula	C11H8O4
Application Notes	Selective inhibitor of IRE1alpha ribonuclease (RNase) activity (IC50 = 60 nM). Covalently binds to lysine 907 in the IRE1 endonuclease domain, blocking substrate access to the active site of IRE1alpha and inactivating both XBP1 splicing and IRE1alpha-mediated mRNA degradation but not IRE1 kinase activity ¹ . Inhibits IRE1alpha in response to hypoxia or other ER stress-inducing agents but has no effect on proliferation or clonogenic survival of hypoxic cells ² . Blocks production of IL-4, IL-5 and IL-13 production in T cells ³ . Prevents the splicing of the XBP1 mRNA in response to ER stress caused by mutant proinsulin production in pancreatic beta-cells ⁴ .