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Product Datasheet

Kifunensine, CAS [[109944-15-2]] FBM-10-2860

Article Name	Kifunensine, CAS [[109944-15-2]]
Biozol Catalog Number	FBM-10-2860
Supplier Catalog Number	10-2860
Alternative Catalog Number	FBM-10-2860-1MG, FBM-10-2860-5MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Mannosidase inhibitor...
Molecular Weight	232.19
Purity	98% by TLC NMR (Conforms)
Form	White solid
CAS Number	[109944-15-2]
Formula	C ₈ H ₁₂ N ₂ O ₆
Application Notes	Historically isolated from Kitasatosporia kifunensee.1 Inhibitor of class I alpha-mannosidases which inhibit glycoprotein processing. Inhibits human endoplasmic reticulum alpha-1,2-mannosidase I and Golgi Class I mannosidases IA, IB and IC with Ki values of 130 and 23 nM respectively.2 Inhibition of endoplasmic reticulum alpha-mannosidase I activity rescues the human alpha-sarcoglycan R77C mutation suggesting a new pharmacological approach for limb girdle muscular dystrophy type 2D patients carrying mutations that impair alpha-sarcoglycan trafficking.3 Improves maturation of misfolded proteins.4