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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	C8H12N2O6
Application Notes	Historically isolated from <i>Kitasatosporia kifunense</i> . 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