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Product Datasheet

Penitrem A, CAS [[12627-35-9]] FBM-10-2099

Article Name	Penitrem A, CAS [[12627-35-9]]
Biozol Catalog Number	FBM-10-2099
Supplier Catalog Number	10-2099
Alternative Catalog Number	FBM-10-2099-1MG,FBM-10-2099-5MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	High conductance Calcium activated potassium channel inhibitor...
Molecular Weight	634.21
Purity	99% by HPLC NMR (Conforms)
Form	White solid
CAS Number	[12627-35-9]
Formula	C37H44ClNO6

Application Notes	Fungal mycotoxin. Selective, irreversible blocker of the smooth muscle high conductance Ca^{2+}-activated K^{+} (BK, KCa1.1) channel (100% block at 10 nM).¹ Displays brain neurotoxicity in rats along with dose-dependent convulsions and death.² An important tool for studying the role of BK channels in vascular function which is effective in cellular, tissue and in vivo experiments.³ Inhibits BK channels in inside-out and cell-attached patches, whereas iberiotoxin (considered the gold standard BK channel blocker) does not.³ May be used to partially ablate Purkinje cells in immature rat cerebellum providing a model for neural stem cell transplantation studies.⁴ CAUTION: Potent Toxin. Take proper precautions to prevent ingestion, inhalation and skin contact.
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