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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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