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Product Datasheet

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

Artikelname	Penitrem A, CAS [[12627-35-9]]
Artikelnummer	FBM-10-2099
Hersteller Artikelnummer	10-2099
Alternativnummer	FBM-10-2099-1MG,FBM-10-2099-5MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	High conductance Calcium activated potassium channel inhibitor...
Molekulargewicht	634.21
Reinheit	99% by HPLC NMR (Conforms)
Formulierung	White solid
CAS Nummer	[12627-35-9]
Formel	C37H44ClNO6

Anwendungsbeschreibung	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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