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