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Product Datasheet

LMK235, CAS [[1418033-25-6]]

FBM-10-4024

Article Name	LMK235, CAS [[1418033-25-6]]
Biozol Catalog Number	FBM-10-4024
Supplier Catalog Number	10-4024
Alternative Catalog Number	FBM-10-4024-5MG, FBM-10-4024-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Potent, selective inhibitor of HDAC4/5...
Molecular Weight	294.35
Purity	>98% by HPLC NMR (Conforms)
Form	Off-white solid
CAS Number	[1418033-25-6]
Formula	C15H22N2O4

Application Notes

Potent and selective inhibitor of HDAC4 (IC₅₀ = 11.9 nM) and HDAC5 (IC₅₀ = 4.2 nM).¹ Cytotoxic against human ovarian cancer cell lines A2780 and A2780 CisR (IC₅₀s = 0.49 μM and 0.32 μM respectively). It displayed synergistic effects with cisplatin and restored sensitivity in platinum-resistant cell lines.^{1,2} LMK235 induced apoptosis in pancreatic neuroendocrine tumor cell lines BON-1 and QGP-13 and in multiple myeloma cells.⁴ It also induced autophagy and cell death via SCNN1A downregulation in glioblastoma cells.⁵ LMK235 reduced hypertension in mouse and rat models via inhibition of vascular constriction and vessel hypertrophy.⁶ LMK235 significantly increased neurite outgrowth via increased BMP-Smad-dependent transcription in SH-SY5Y cells and exerted neuroprotective effects against neurodegeneration induced by MPP⁺ suggesting possible therapeutic potential in treating Parkinsons disease.⁷