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Product Datasheet

KB-R7943 mesylate, CAS [[182004-65-5]] **FBM-10-1163**

Article Name	KB-R7943 mesylate, CAS [[182004-65-5]]
Biozol Catalog Number	FBM-10-1163
Supplier Catalog Number	10-1163
Alternative Catalog Number	FBM-10-1163-10MG, FBM-10-1163-50MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	TRPC channel blocker...
Molecular Weight	427.49
Purity	98% by TLC [10% methanol in methylene chloride + 0.1% NH ₄ OH, R _f = 0.40] NMR (Conforms)
Form	Tan solid
CAS Number	[182004-65-5]
Formula	C ₁₆ H ₁₇ N ₃ O ₃ S CH ₃ SO ₃ H
Application Notes	KB-R7943 is a potent and selective inhibitor of the reversed Na ⁺ /Ca ²⁺ exchanger (NCE or NCX, IC ₅₀ s = 1.2-2.4 μM in cardiomyocytes, smooth muscle cells, NCX1-transfected fibroblasts ¹ , 0.7 μM in cultured rat forebrain ²). KB-R7943 has also been shown to inhibit the mitochondrial Ca ²⁺ uniporter (MCU) - Ki = 5.5 μM. ³ Recently shown to inhibit complex I in the mitochondrial respiratory chain (IC ₅₀ = 11.4 μM) and block NMDA receptors (IC ₅₀ = 13.4 μM). ⁴