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Product Datasheet

(+/-) RK-682, CAS [[154639-24-4]] FBM-10-4300

Article Name	(+/-) RK-682, CAS [[154639-24-4]]
Biozol Catalog Number	FBM-10-4300
Supplier Catalog Number	10-4300
Alternative Catalog Number	FBM-10-4300-200UG,FBM-10-4300-1MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	Tyrosine phopshatase inhibitor...
Molecular Weight	368.52
Purity	98% by TLC, NMR (Conforms)
Form	Off-white or Yellow solid
CAS Number	[154639-24-4]
Formula	C ₂₁ H ₃₆ O ₅
Application Notes	RK-682 is a protein tyrosine phosphatase inhibitor (IC₅₀s = 54 µM for CD45, 2.0 µM for VHR, did not inhibit cdc25B) originally isolated from the fermentation of Streptomyces sp. 88-682.1 Inhibits cell cycle at G1/S. RK-682 has also been shown to inhibit PLA2 (IC₅₀ = 16 µM)², HIV-1 protease (IC₅₀ = 84 µM)³, and heparanase (IC₅₀ = 17 µM)⁴. Natural RK-682 (R-isomer) and synthetic racemic material have identical phosphatase activity.⁵ Care should be taken when using RK-682 in the presence of metal salts - RK-682 readily forms metal complexes that affects its phosphatase inhibitory activity.⁶ RK-682 has been identified as a potential promiscuous inhibitor.⁷