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Product Datasheet

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

Artikelname	(+/-) RK-682, CAS [[154639-24-4]]
Artikelnummer	FBM-10-4300
Hersteller Artikelnummer	10-4300
Alternativnummer	FBM-10-4300-200UG,FBM-10-4300-1MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	Tyrosine phopshatase inhibitor...
Molekulargewicht	368.52
Reinheit	98% by TLC, NMR (Conforms)
Formulierung	Off-white or Yellow solid
CAS Nummer	[154639-24-4]
Formel	C ₂₁ H ₃₆ O ₅
Anwendungsbeschreibung	<p>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 <i>Streptomyces</i> 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</p>