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Product Datasheet

Belumosudil, CAS [[911417-87-3]] FBM-10-4165

Article Name	Belumosudil, CAS [[911417-87-3]]
Biozol Catalog Number	FBM-10-4165
Supplier Catalog Number	10-4165
Alternative Catalog Number	FBM-10-4165-5MG,FBM-10-4165-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	ROCK2 inhibitor...
Molecular Weight	452.52
Purity	98% by HPLC NMR (Conforms)
Form	White solid
CAS Number	[911417-87-3]
Formula	C ₂₆ H ₂₄ N ₆ O ₂
Application Notes	Belumosudil is a selective inhibitor of Rho kinase 2 (ROCK2) - IC₅₀s: ROCK2 = 105 nM, ROCK1 = 24 μM in enzyme assays.¹ It downregulated the ability of T cells to secrete IL-21 and IL-17, but not IFN-γ, in response to T cell stimulation in vitro via a STAT3-dependent mechanism.² Belumosudil ameliorated graft-versus-host disease in multiple models^{3,4} and was recently approved by the FDA for the treatment of GVHD (July 2021). It has also been shown to suppress adipogenesis.⁵⁻⁷ Suppression of adipocyte differentiation is mediated via casein kinase 2 inhibition (IC₅₀ = 50 nM) and not ROCK2 inhibition.⁸