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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	C26H24N6O2
Application Notes	Belumosudil is a selective inhibitor of Rho kinase 2 (ROCK2) - IC50s: ROCK2 = 105 nM, ROCK1 = 24 $\mu$ M in enzyme assays. <sup>1</sup> It downregulated the ability of T cells to secrete IL-21 and IL-17, but not IFN- $\gamma$ , in response to T cell stimulation in vitro via a STAT3-dependent mechanism. <sup>2</sup> Belumosudil ameliorated graft-versus-host disease in multiple models <sup>3,4</sup> and was recently approved by the FDA for the treatment of GVHD (July 2021). It has also been shown to suppress adipogenesis. <sup>5-7</sup> Suppression of adipocyte differentiation is mediated via casein kinase 2 inhibition (IC50 = 50 nM) and not ROCK2 inhibition. <sup>8</sup>