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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 <sub>26</sub> H <sub>24</sub> N <sub>6</sub> O <sub>2</sub>
Application Notes	<p>Belumosudil is a selective inhibitor of Rho kinase 2 (ROCK2) - IC<sub>50</sub>s: ROCK2 = 105 nM, ROCK1 = 24 μM in enzyme assays.<sup>1</sup> 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.<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 (IC<sub>50</sub> = 50 nM) and not ROCK2 inhibition.<sup>8</sup></p>