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## Product Datasheet

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

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| 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          | 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> |