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## Product Datasheet

**DJ001, CAS [[2161305-12-8]]**

**FBM-10-3800**

Article Name	DJ001, CAS [[2161305-12-8]]
Biozol Catalog Number	FBM-10-3800
Supplier Catalog Number	10-3800
Alternative Catalog Number	FBM-10-3800-5MG,FBM-10-3800-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	PTPsigma inhibitor / Promotes stem cell regeneration...
Molecular Weight	268.27
Purity	98% by TLC NMR (Conforms)
Form	Yellow solid
CAS Number	[2161305-12-8]
Formula	C15H12N2O3
Application Notes	<p>DJ001 (2161306-12-8) is a potent and specific inhibitor of receptor type protein tyrosine phosphatase-sigma (PTP<math>\sigma</math>) IC<sub>50</sub>=1.54 M and &gt;10 M for 20 other phosphatases.<sup>1</sup> Promotes hematopoietic stem cell regeneration in vivo. In mice treated with 5-fluorouracil or irradiated, DJ001 promoted HSC regeneration accelerated hematologic recovery and improved survival. The mode of inhibition of PTP<math>\sigma</math> is via non-competitive allosteric binding. Suppression of radiation-induced HSC apoptosis occurs via activation of Rho GTPase, Rac1 and induction of BCL-XL. Treatment of irradiated human HSCs with DJ001 promotes the regeneration of human HSCs capable of multilineage in vivo repopulation.<sup>1</sup></p>