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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	DJ001 (2161306-12-8) is a potent and specific inhibitor of receptor type protein tyrosine phosphatase-sigma (PTP σ) IC ₅₀ =1.54 M and >10 M for 20 other phosphatases. ¹ Promotes hematopoietic stem cell regeneration <i>in vivo</i> . In mice treated with 5-fluorouricil or irradiated, DJ001 promoted HSC regeneration accelerated hematologic recovery and improved survival. The mode of inhibition of PTP σ 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 <i>in vivo</i> repopulation. ¹