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Product Datasheet

DJ001, CAS [[2161305-12-8]] FBM-10-3800

Artikelname	DJ001, CAS [[2161305-12-8]]
Artikelnummer	FBM-10-3800
Hersteller Artikelnummer	10-3800
Alternativnummer	FBM-10-3800-5MG,FBM-10-3800-25MG
Hersteller	Focus Biomolecules
Kategorie	Biochemikalien
Produktbeschreibung	PTPsigma inhibitor / Promotes stem cell regeneration...
Molekulargewicht	268.27
Reinheit	98% by TLC NMR (Conforms)
Formulierung	Yellow solid
CAS Nummer	[2161305-12-8]
Formel	C15H12N2O3

Anwendungsbeschreibung	DJ001 (2161306-12-8) is a potent and specific inhibitor of receptor type protein tyrosine phosphatase-sigma (PTPσ) IC₅₀=1.54 M and >10 M for 20 other phosphatases.¹ 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 PTPσ 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.¹
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