
Please note: This document was created automatically and is not a substitute for the manufacturer's original document.

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 (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</p> |