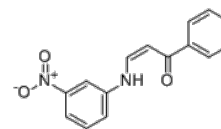


Product Name : DJ001
Cat. No. : PC-73052
CAS No. : 2161305-12-8
Molecular Formula : C₁₅H₁₂N₂O₃
Molecular Weight : 268.272
Target : Protein Phosphatase/PTP
Solubility : 10 mM in DMSO



Biological Activity

DJ001 (DJ-001, UCLA 5483071) is a highly selective, allosteric protein tyrosine phosphatase-sigma (**PTP σ**) inhibitor with IC₅₀ of 1.5 μ M.

DJ001 displays no inhibitory activity against 20 other phosphatases, with only modest inhibitory activity against Protein Phosphatase 5.

DJ001 antagonizes PTP σ via unique non-competitive, allosteric binding.

DJ001 suppresses radiation-induced hematopoietic stem cells (HSCs) apoptosis via activation of the RhoGTPase, RAC1, and induction of BCL-XL.

DJ001 promotes HSC regeneration, accelerates hematologic recovery, and improves survival in irradiated mice.

References

Zhang Y, et al. *Nat Commun.* 2019 Aug 14;10(1):3667.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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