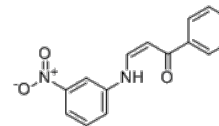


**Product Name** : DJ001  
**Cat. No.** : PC-73052  
**CAS No.** : 2161305-12-8  
**Molecular Formula** : C<sub>15</sub>H<sub>12</sub>N<sub>2</sub>O<sub>3</sub>  
**Molecular Weight** : 268.272  
**Target** : Protein Phosphatase/PTP  
**Solubility** : 10 mM in DMSO



## Biological Activity

DJ001 (DJ-001, UCLA 5483071) is a highly selective, allosteric protein tyrosine phosphatase-sigma (**PTP $\sigma$** ) inhibitor with IC<sub>50</sub> of 1.5  $\mu$ M.

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

DJ001 antagonizes PTP $\sigma$  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 promoted 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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