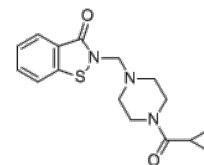


**Product Name** : LOC14  
**Cat. No.** : PC-70321  
**CAS No.** : 877963-94-5  
**Molecular Formula** : C<sub>16</sub>H<sub>19</sub>N<sub>3</sub>O<sub>2</sub>S  
**Molecular Weight** : 317.41  
**Target** : Protein Disulfide Isomerase (PDI)  
**Solubility** : 10 mM in DMSO



### Biological Activity

LOC14 is a small molecule reversible **Protein disulfide isomerase** (PDI) inhibitor with K<sub>d</sub> of 62 nM.

LOC14-induced oxidation of PDI has a neuroprotective effect not only in cell culture, but also in corticostriatal brain slice cultures.

LOC14 exhibits high stability in mouse liver microsomes and blood plasma, low intrinsic microsome clearance, and low plasma-protein binding.

### References

Kaplan A, et al. *Proc Natl Acad Sci U S A*. 2015 Apr 28;112(17):E2245-52.

Vatolin S, et al. *Cancer Res*. 2016 Jun 1;76(11):3340-50.

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

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