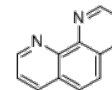


**Product Name** : O-phenanthroline  
**Cat. No.** : PC-61352  
**CAS No.** : 66-71-7  
**Molecular Formula** : C<sub>12</sub>H<sub>8</sub>N<sub>2</sub>  
**Molecular Weight** : 180.21  
**Target** : Proteasome  
**Solubility** :



### Biological Activity

A selective inhibitor of 26S proteasome subunit Rpn11 with IC<sub>50</sub> of 10±2 uM; shows no activity for other DUBs (USP1/USP2/USP4/USP5/USP7/USP8/USP20/UCH37, IC<sub>50</sub>>50 uM); blocks cellular proteasome function, induces apoptosis in MM cells and overcomes resistance to proteasome inhibitor bortezomib, activates caspase cascade and endoplasmic stress response signaling; reduces progression of tumor growth and prolongs survival in mice MM xenograft model.

### References

Song Y, et al. Oncogene. 2017 Jun 5. doi: 10.1038/onc.2017.172.

Verma R, et al. Science. 2002 Oct 18;298(5593):611-5.

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

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