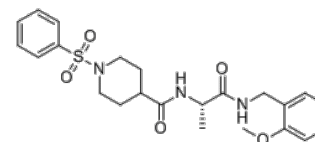


**Product Name** : BC-1382  
**Cat. No.** : PC-60547  
**CAS No.** : 1013753-99-5  
**Molecular Formula** : C<sub>23</sub>H<sub>29</sub>N<sub>3</sub>O<sub>5</sub>S  
**Molecular Weight** : 459.561  
**Target** : E3 Ubiquitin Ligase  
**Solubility** : 10 mM in DMSO



## Biological Activity

BC-1382 is a potent ubiquitin E3 ligase **HECTD2** inhibitor that specifically disrupts the HECTD2/PIAS1 interaction with IC<sub>50</sub> of 5 nM.

BC-1382 drastically increases PIAS1 protein level with IC<sub>50</sub> of 100 nM and improves PIAS1 protein stability, with no effect on PIAS3, PIAS4, and HECTD2 protein levels.

BC-1382 suppresses LPS-induced PIAS1 degradation and restores PIAS1 protein levels at 800 nM, and proinflammatory cytokines released by PBMCs.

BC-1382 attenuates LPS- and *Pseudomonas aeruginosa*-induced lung inflammation

## References

Coon TA, et al. *Sci Transl Med*. 2015 Jul 8;7(295):295ra109.

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

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