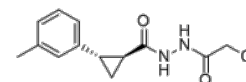


**Product Name** : LN5P45  
**Cat. No.** : PC-21098  
**CAS No.** : 2307750-78-1  
**Molecular Formula** : C<sub>13</sub>H<sub>15</sub>ClN<sub>2</sub>O<sub>2</sub>  
**Molecular Weight** : 266.73  
**Target** : Deubiquitinase (DUB)  
**Solubility** : 10 mM in DMSO



CAS: 2307750-78-1

## Biological Activity

LN5P45 is a selective, covalent, irreversible inhibitor of ubiquitin thioesterase **OTUB2** with IC<sub>50</sub> of 2.3 μM, strongly induces monoubiquitination of OTUB2 on Lys31.

LN5P45 is about 20-fold more potent toward OTUB2 over OTUD3 (IC<sub>50</sub>=56 μM).

LN5P45 also shows no activity against the closest family members OTUB1, OTUD1, OTUD2, OTUD3, OTUD6B, and Cezanne, and DUBs UCHL1 and USP16 (IC<sub>50</sub>>100 μM).

LN5P45 (10 μM) displays clear inhibition of GFP-OTUB2 in HEK293T cells, LN5P45 engages endogenous OTUB2 and is selective for OTUB2 over other ubiquitin machinery components.

## References

Jin Gan, et al. *ACS Chem Biol.* 2023 Aug 29.

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

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