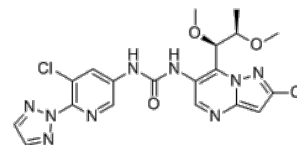


**Product Name** : MLT-748  
**Cat. No.** : PC-36042  
**CAS No.** : 1832578-30-9  
**Molecular Formula** : C<sub>19</sub>H<sub>19</sub>Cl<sub>2</sub>N<sub>9</sub>O<sub>3</sub>  
**Molecular Weight** : 492.321  
**Target** : MALT1  
**Solubility** : 10 mM in DMSO



### Biological Activity

MLT-748 (MLT748) is a potent, selective, allosteric inhibitor of **MALT1** paracaspase with IC<sub>50</sub> of 5 nM, does not show inhibitory activity against 22 other tested human proteases (IC<sub>50</sub>>100 uM).

MLT-748 binds MALT1 in the allosteric Trp580 pocket, reversibly binds and stabilizes human mutant MALT1-W580S with K<sub>d</sub> of 13 nM, with affinity similar to that of the wild type MALT1 (K<sub>d</sub>=42 nM).

MLT-748 stabilizes MALT1-W580S in MALT1mut/mut B cells with EC<sub>50</sub> of 69 nM, blocks cleavage of MALT1 substrates in human lymphocytes, including HOIL1, RelB, CYLD, and BCL10 (BCL10 cleavage IC<sub>50</sub>=31 nM).

MLT-748 rescues MALT1 function in patient MALT1mut/mut lymphocytes.

### References

Quancard J, et al. *Nat Chem Biol*. 2019 Jan 28. doi: 10.1038/s41589-018-0222-1.

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

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