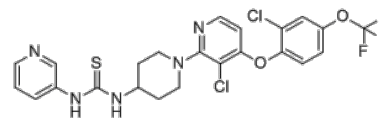


**Product Name** : DO264  
**Cat. No.** : PC-35796  
**CAS No.** : 2301866-59-9  
**Molecular Formula** : C<sub>23</sub>H<sub>20</sub>Cl<sub>2</sub>F<sub>3</sub>N<sub>5</sub>O<sub>2</sub>S  
**Molecular Weight** : 558.401  
**Target** : Phospholipase  
**Solubility** : 10 mM in DMSO



### Biological Activity

DO264 (DO-264) is a potent, selective, reversible and vivo-active inhibitor of **ABHD12** that inhibits ABHD12-dependent lyso-PS lipase activity of membrane lysates from mouse brain with IC<sub>50</sub> of 2.8 nM.

DO264 blocks lyso-PS hydrolysis activities of recombinant mouse and human ABHD12 in transfected HEK293T cell lysates with IC<sub>50</sub> of 30-90 nM.

DO264 selectively blocks >95% of ABHD12 activity without affecting the activity of other serine hydrolases in THP-1 cells at 1 μM.

DO264 elevates lyso-PS in mouse brain and primary human macrophages, inhibits ABHD12 and increases brain lyso-PS content, stimulates immune responses in vivo.

### References

Ogasawara D, et al. *Nat Chem Biol.* 2018 Dec;14(12):1099-1108.

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

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