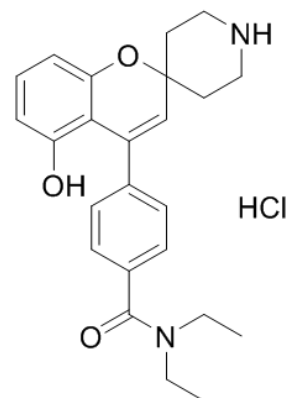


**Product Name** : ADL5859  
**Cat. No.** : PC-43352  
**CAS No.** : 850173-95-4  
**Molecular Formula** : C<sub>24</sub>H<sub>29</sub>ClN<sub>2</sub>O<sub>3</sub>  
**Molecular Weight** : 428.9517  
**Target** : Opioid Receptor  
**Solubility** : 10 mM in DMSO



## Biological Activity

ADL5859 is a potent, selective, orally bioavailable full agonist of  $\delta$  opioid receptor (**DOR**) with  $K_i$  of 0.84 nM and  $EC_{50}$  of 20 nM.

ADL5859 exhibits >1,000-fold selectivity for  $\delta$  over  $\mu$  and  $\kappa$  opioid receptors in both receptor binding and in vitro bioassays. ADL5859 demonstrates analgesic and antidepressive effects in the rat and represent potential drug for chronic pain treatment, significantly reduces inflammatory and neuropathic pain, does not induce either hyperlocomotion or receptor internalization in vivo.

## References

Le Bourdonnec B, et al. *J Med Chem.* 2008 Oct 9;51(19):5893-6.

Nozaki C, et al. *J Pharmacol Exp Ther.* 2012 Sep;342(3):799-807.

Huang P, et al. *Eur J Pharmacol.* 2016 Jun 15;781:53-9.

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

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