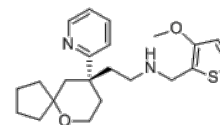


**Product Name** : Oliceridine  
**Cat. No.** : PC-61681  
**CAS No.** : 1401028-24-7  
**Molecular Formula** : C<sub>22</sub>H<sub>30</sub>N<sub>2</sub>O<sub>2</sub>S  
**Molecular Weight** : 386.55  
**Target** : Opioid Receptor  
**Solubility** : 10 mM in DMSO



### Biological Activity

Oliceridine (Olinvo, TRV130) is a potent, selective, and G protein biased **μ opioid receptor** (MOR) agonist with pEC<sub>50</sub> of 8.1. Oliceridine displays 178-fold selectivity over KOR and 355-fold selectivity over DOR. Oliceridine elicits robust G protein signaling, with potency and efficacy similar to morphine in cell-based assays. Oliceridine is potently analgesic with reduced gastrointestinal and respiratory dysfunction compared with morphine in mice and rats.

### References

- Chen XT, et al. *J Med Chem*. 2013 Oct 24;56(20):8019-31.  
DeWire SM, et al. *J Pharmacol Exp Ther*. 2013 Mar;344(3):708-17.  
Schneider S, et al. *Biochemistry*. 2016 Nov 22;55(46):6456-6466.

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

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