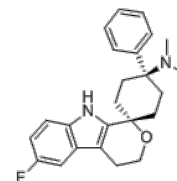


**Product Name** : Cebranopadol  
**Cat. No.** : PC-35217  
**CAS No.** : 863513-91-1  
**Molecular Formula** : C<sub>24</sub>H<sub>27</sub>FN<sub>2</sub>O  
**Molecular Weight** : 378.491  
**Target** : Opioid Receptor  
**Solubility** : 10 mM in DMSO



## Biological Activity

Cebranopadol (GRT-6005, GRT6005) is a potent analgesic nociceptin/orphanin FQ peptide (**NOP receptor, ORL1**) and opioid receptor agonist with  $K_i/EC_{50}$  of 0.9/13 nM (human NOP receptor), 0.7/1.2 nM ( $\mu$ -opioid receptor). Cebranopadol exhibits highly potent and efficacious antinociceptive and antihypersensitive effects in several rat models of acute and chronic pain with ED<sub>50</sub> values of 0.5-5.6  $\mu$ g/kg after oral administration, does not disrupt motor coordination and respiration.

## References

- Linz K, et al. *J Pharmacol Exp Ther*. 2014 Jun;349(3):535-48.  
Schunk S, et al. *ACS Med Chem Lett*. 2014 Jun 24;5(8):857-62.

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

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