

## Product Datasheet

### [Nphe1]Nociceptin(1-13)NH<sub>2</sub> TFA (orb1981547)

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog Number</b> | orb1981547                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Category</b>       | Small Molecules                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>    | [Nphe1]Nociceptin(1-13)NH <sub>2</sub> is a novel endogenous ligand for the nociceptin/orphanin FQ (NC) receptor, acting as a selective and competitive antagonist without any agonist effects. It binds specifically to recombinant nociceptin receptors with high affinity (pK <sub>i</sub> =8.4) and effectively blocks nociceptin's ability to inhibit cyclic AMP accumulation in CHO cells (pA <sub>2</sub> =6.0), showcasing potential as an analgesic agent. |
| <b>Target</b>         | Opioid Receptor                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>MW</b>             | 1495.61                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Formula</b>        | C <sub>63</sub> H <sub>101</sub> F <sub>3</sub> N <sub>22</sub> O <sub>17</sub>                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Storage</b>        | -20°C                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Note</b>           | For research use only                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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