

# Product Datasheet

## PL-017 (orb1679392)

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog Number</b>  | orb1679392                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Category</b>        | Proteins                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>     | This compound is a potent and selective $\mu$ opioid receptor agonist, with an IC <sub>50</sub> of 5.5 nM at $\mu$ sites and >10,000 nM at $\delta$ sites. In vivo, it induces analgesia, catalepsy, and hyperthermia in rats via central administration, effects which are reversible by naloxone. It is a valuable research tool for studying $\mu$ -opioid receptor pharmacology and neurobiology in both in vitro binding assays and in vivo behavioral models. |
| <b>Target</b>          | Opioid Receptor                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>MW</b>              | 535.64                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>CAS Number</b>      | 83397-56-2                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Formula</b>         | C <sub>29</sub> H <sub>37</sub> N <sub>5</sub> O <sub>5</sub>                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>SMILES</b>          | <chem>C(N([C@H](C(=O)N1[C@@H](C(N)=O)CCC1)CC2=CC=CC=C2)C)(=O)[C@H]3N(C([C@H](CC4=CC=C(O)C=C4)N)=O)CCC3</chem>                                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage</b>         | -20°C                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Note</b>            | For research use only                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Expiration Date</b> | 12 months from date of receipt.                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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