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**Product Data Sheet**

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Product Name: TAN 452  
Cat. No.: GC50558

**Chemical Properties**

Cas. No. 892039-23-5

SMILES [H][C@@]12OC3=C(C=CC4=C3[C@@]15CCN([C@](C4)([C@@]5(CC6=C2NC7=CC(C(OCC)=O)=CC=C67)O)[H])CC8CC8)O

Formula C<sub>29</sub>H<sub>30</sub>N<sub>2</sub>O<sub>5</sub> M.Wt 486.56

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

**Background**

Potent and selective peripherally acting  $\delta$  opioid antagonist;  $K_i$  values are 0.47, 5.31 and 36.56 nM at hDOR, hKOR, and hMOR, respectively.  $K_b$  values are 0.21, 7.18 and 9.43 nM, respectively. Attenuates morphine-induced side effects in vivo. Antianalgesic.

Lattanzi et al (2018) In vitro and in vivo pharmacological activities of 14-O-phenylpropyloxymorphone, a potent mixed mu/delta/kappa-opioid receptor agonist with reduced constipation in mice. *Front.Pharmacol.* 9 10.3389/fphar.2018.0 PMID:30233377

**Caution: Product has not been fully validated for medical applications. For research use only.**

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