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**Product Data Sheet**

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Product Name: PK-THPP  
Cat. No.: GC50147

**Chemical Properties**

Cas. No. 1332454-07-5

SMILES O=C(C1=CC=C(C2=CC=CC=C2)C=C1)N(C3)CCC4=C3C(N5CCC(C(CCC)=O)CC5)=NC=N4

Formula C<sub>29</sub>H<sub>32</sub>N<sub>4</sub>O<sub>2</sub> M.Wt 468.59

Solubility Soluble in DMSO Storage Store at -20°C

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

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

Structure

**Background**

Potent TASK-3 channel blocker (IC<sub>50</sub> = 35 and 300 nM for TASK-3 and TASK-1 respectively). Increases breathing rate and induces respiratory alkalosis in rats.

Cotten (2013) TASK-1 (KCNK3) and TASK-3 (KCNK9) tandem pore potassium channel antagonists stimulate breathing in isoflurane-anesthetized rats. *Anesth.Analg.* 116 810 PMID:23460565 | Coburn et al (2012) Discovery of a pharmacologically active antagonist of the two-pore-domain potassium channel K2P9.1 (TASK-3). *ChemMedChem* 7 123 PMID:21916012

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

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