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## Product Data Sheet

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Product Name: DPM-1001

Cat. No.: GC38445

**Chemical Properties**

Cas. No. 1471172-27-6

SMILES O[C@H]1[C@]2([H])[C@@](CC[C@@]3(C)[C@@]2([H])CC[C@]3([H])[C@H](C)CCC(OC)=O)([H])[C@]4(C)[C@@](C[C@H](NCCCCNCC5=CC=CC=N5)CC4([H])C1

Formula C<sub>35</sub>H<sub>57</sub>N<sub>3</sub>O<sub>3</sub> M.Wt 567.85

Solubility DMSO : 100 mg/mL (176.10 mM; ultrasonic and warming and heat to 60°C) 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**

DPM-1001 is a potent, specific, orally bioavailable and non-competitive inhibitor of protein-tyrosine phosphatase (PTP1B) with an IC<sub>50</sub> of 100 nM, an analog of the specific PTP1B inhibitor trodusquemine (MSI-1436; IC<sub>50</sub>=600 nM). DPM-1001 has anti-diabetic property[1].

[1]. Krishnan N, et al. A potent, selective, and orally bioavailable inhibitor of the protein-tyrosine phosphatase PTP1B improves insulin and leptin signaling in animal models. J Biol Chem. 2018 Feb 2;293(5):1517-1525.

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

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