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**Product Data Sheet**

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Product Name: Dot1L-IN-1

Cat. No.: GC33208

**Chemical Properties**

Cas. No. 2088518-50-5

SMILES CC1=NC=CC=C1C2=C(Cl)SC3=CC=C(NC(NCC(NCCCN(C)[C@@H]4CCCN(C5=C(C=CN6)C6=NC=N5)C4)=O)=O)C=C32Formula C<sub>32</sub>H<sub>36</sub>ClN<sub>9</sub>O<sub>2</sub>S M.Wt 646.21

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**

Dot1L-IN-1 is a highly potent, selective and structurally novel Dot1L inhibitor with a  $K_i$  of 2 pM.

Dot1L-IN-1 potently suppresses H3K79 dimethylation ( $IC_{50} = 3$  nM), the direct product of the Dot1L catalyzed reaction, as well as the activity of the HoxA9 promoter ( $IC_{50} = 17$  nM) in HeLa and Molm-13 cells, respectively[1]. Dot1L-IN-1 effectively inhibits proliferation of the human MLL-rearranged leukemia cell line MV4-11 carrying the oncogenic MLL-AF4 fusion ( $IC_{50} = 5$  nM)[1].

[1]. M?bitz H, et al. Discovery of Potent, Selective, and Structurally Novel Dot1L Inhibitors by a Fragment Linking Approach. ACS Med Chem Lett. 2017 Feb 14;8(3):338-343.

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

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