
Product Data Sheet

Product Name: MI-2-2
Cat. No.: GC69456

Chemical Properties

Cas. No. 1454920-20-7

Formula $C_{17}H_{20}F_3N_5S_2$ M.Wt 415.5

Solubility DMSO : 100 mg/mL (240.67 mM;
Need ultrasonic) Storage Store at -20°C, away from
moisture and light

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

Structure

Background

MI-2-2 is a potent menin-MLL inhibitor. MI-2-2 binds to menin with low nanomolar affinity ($K_D=22nM$) and very effectively disrupts the bivalent protein-protein interaction between menin and MLL. MI-2-2 has specific and very pronounced activity in MLL leukemia cells, including inhibition of cell proliferation, down-regulation of Hoxa9 expression, and differentiation^[1].

MI-2-2 is capable of inhibiting both the interaction of menin with MBM1 ($IC_{50}=46nM$) and with the bivalent fragment of MLL that comprises both MBM1 and MBM2 ($IC_{50}=520nM$). MI-2-2 exhibits very pronounced activities at low micromolar concentrations in BMCs transformed with MLL-AF9 and in MV4;11, a human leukemia cell line harboring the MLL-AF4 translocation^[1].

[1]. Shi A, et al. Structural insights into inhibition of the bivalent menin-MLL interaction by small molecules in leukemia. Blood. 2012;120(23):4461-4469.

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

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