

Product Data Sheet

Product Name: MALT1 inhibitor MI-2

Cat. No.: GC36534

Chemical Properties

Cas. No. 1047953-91-2

SMILES O=C(NC1=CC=C(N2N=C(OCCOC)N=C2C3=CC=C(C(Cl)C(Cl)=C3)C=C1)CCl

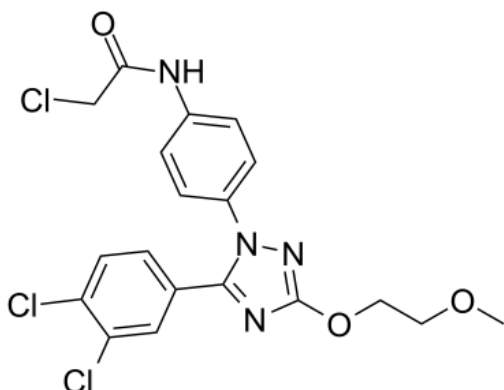
Formula $C_{19}H_{17}Cl_3N_4O_3$ M.Wt 455.72

Solubility DMSO: ≥ 46 mg/mL (100.94 mM) 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

MALT1 inhibitor MI-2 is a MALT1 inhibitor ($\text{IC}_{50}=5.84\text{ }\mu\text{M}$). MALT1 inhibitor MI-2 binds directly to MALT1, irreversibly suppresses protease function and is accompanied by NF- κ B reporter activity suppression, c-REL nuclear localization inhibition, and NF- κ B target gene downregulation. MALT1 inhibitor MI-2 shows nontoxic to mice[1]. IC_{50} : $5.84\text{ }\mu\text{M}$ (MALT1)[1]

MALT1 inhibitor MI-2 (1-1000 nM; 48 hours) selectively suppresses MALT1-dependent DLBCL cell lines, and the GI_{50} in HBL-1, TMD8, OCI-Ly3, and OCI-Ly10 cells is 0.2, 0.5, 0.4, and $0.4\text{ }\mu\text{M}$,

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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respectively[1]. MALT1 inhibitor MI-2 (62-1000 nM; 24 hours) causes a dose-dependent decrease in MALT1-mediated cleavage[1]. Cell Proliferation Assay[1] Cell Line: HBL-1, TMD8, OCI-Ly3, OCI-Ly10 cells

MALT1 inhibitor MI-2 (25 mg/kg; i.p.; daily for 14 days) profoundly suppresses the growth of both the TMD8 and HBL-1 ABC-DLBCL xenografts[1]. Animal Model: Eight-week-old male SCID NOD (bearing HBL-1 and TMD8 cells)[1]

[1]. Fontan L, et al. MALT1 small molecule inhibitors specifically suppress ABC-DLBCL in vitro and in vivo. Cancer Cell. 2012 Dec 11;22(6):812-24.

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