

Product Data Sheet

Product Name: Dot1L-IN-4

Cat. No.: GC62613

Chemical Properties

Cas. No. 2565705-02-2

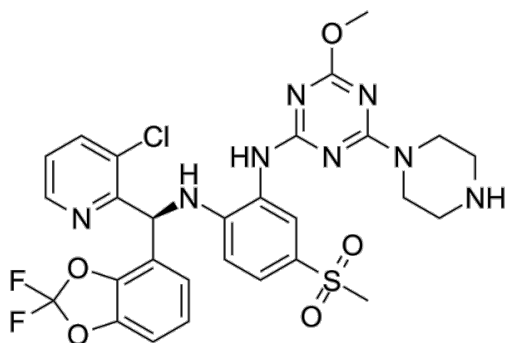
Formula $C_{28}H_{27}ClF_2N_8O_5S$ M.Wt 661.08

Solubility DMSO : 250 mg/mL (378.17 mM; Need ultrasonic) 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-4 is a potent disruptor of telomeric silencing 1-like protein (DOT1L) inhibitor with an IC₅₀ SPA DOT1L of 0.11 nM[1].

Dot1L-IN-4 (Compound 10) is tested in cellular assays to assess the ability to inhibit the dimethylation of H3K79 in HeLa cells (ED₅₀ H3K79me₂ Elisa=1.7 nM) and HOXA9 gene expression in Molm-13 cells (ED₅₀ HOXA9 RGA=33 nM). Dot1L-IN-4 also inhibits mixed lineage leukemia (MLL) with an IC₅₀ of 99 μM[1].

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

Product Data Sheet

Dot1L-IN-4 (Compound 10; 300 mg/kg; p.o.; qd) is not tolerated at such a high dose by tumor xenograft bearing mice, and at a 6-fold reduced dose, the tumor growth as well as the HOXA9 reporter gene mRNA are reduced only by less than half as compared to control animals[1].

[1]. FrÉdÉric Stauffer, et al. New Potent DOT1L Inhibitors for in Vivo Evaluation in Mouse. ACS Med. Chem. Lett. 2019, 10, 12, 1655-1660.

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