

Product Data Sheet

Product Name: MM-589 TFA

Cat. No.: GC65037

Chemical Properties

Cas. No. 2097887-21-1

Formula C₃₀H₄₅F₃N₈O₇

M.Wt 686.72

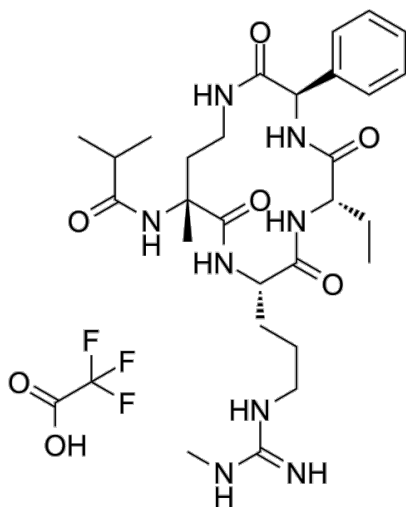
Solubility DMSO : 25 mg/mL (36.40 mM);
ultrasonic and warming and heat to
60°C)

Storage -20°C, away from moisture

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

MM-589 TFA is a potent inhibitor of WD repeat domain 5 (WDR5) and mixed lineage leukemia (MLL) protein-protein interaction. MM-589 binds to WDR5 with an IC₅₀ of 0.90 nM and inhibits the MLL H3K4 methyltransferase activity with an IC₅₀ of 12.7 nM[1].

MM-589 (0.01-10 μM, 4 days or 7 days) potently and selectively inhibits cell growth in human leukemia cell lines harboring MLL translocations[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

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[1]. Karatas H, et al. Discovery of a Highly Potent, Cell-Permeable Macrocyclic Peptidomimetic (MM-589) Targeting the WD Repeat Domain 5 Protein (WDR5)-Mixed Lineage Leukemia (MLL) Protein-Protein Interaction. J Med Chem. 2017 Jun 22;60(12):4818-4839.

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