
Product Data Sheet

Product Name: Murizatoclax

Cat. No.: GC62707

Chemical Properties

Cas. No. 2245848-05-7

Formula $C_{42}H_{57}ClN_4O_5S$ M.Wt 765.44

Solubility Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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

Murizatoclax (AMG 397) is a potent, selective and orally active inhibitor of myeloid leukemia 1 (MCL-1) inhibitor, with a K_i of 15 pM. Murizatoclax competitive binds to the BH3-binding groove of MCL1 with pro-apoptotic BCL-2 family members. Murizatoclax can be used for the research of cancer[1][2].

AMG 397 potently disrupts the interaction between MCL1 and BIM in OPM2 cells, induces clear increases in Caspase-3/7 activity within one hour[2].

Murizatoclax (25-50 mg/kg; p.o. once or twice weekly) exhibits significant tumor regressions in mice bearing OPM2 xenografts[2]. Murizatoclax (10-60 mg/kg; p.o. twice weekly) achieves 47% MOLM-13 orthotopic tumor growth inhibition (TGI), 99% TGI and 75% regression at the dose of 10, 30 and 60 mg/kg, respectively[2].

[1]. Wang H, et al. Targeting MCL-1 in cancer: current status and perspectives. J Hematol Oncol. 2021 Apr 21;14(1):67.

[2]. Caenepeel S, et al. Abstract 6218: discovery and preclinical evaluation of AMG 397, a potent, selective and orally bioavailable MCL1 inhibitor. Cancer Res. 2020;80(16 Supplement):6218.

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

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