

Product Data Sheet

Product Name: AZD4320

Cat. No.: GC33255

Chemical Properties

Cas. No. 1357576-48-7

SMILES O=C(NS(=O)(C1=CC=C(N[C@H](CCN(CCO)C)CSC2=CC=CC=C2)C(S(=O)(C(F)(F)F)=O)=C1)=O)C3=CC=C(N4CCC([C@H](C5=CC=CC=C5C6=CC=C(Cl)C=C6)O)CC4)C=C3

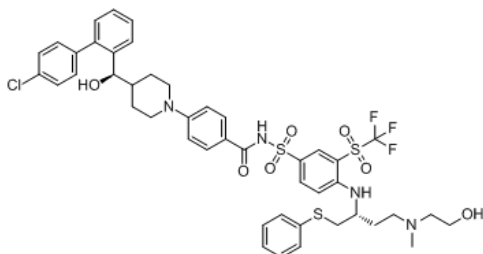
Formula $C_{45}H_{48}ClF_3N_4O_7S_3$ M.Wt 945.53

Solubility DMSO: 125 mg/mL (132.20 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



Protocol

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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Cell experiment: Two DEL-derived cell lines, KPUM-MS3 and KPUM-UH1, and a DHL-derived cell line, STR-428 are used. To examine the combinatory growth inhibitory effects of AZD4320, cells are treated with five concentrations (0.25, 0.5, 1.0, 2.0, 4.0×IC₅₀) for 72 h, and subjected to a modified MTT assay[1].

References:

[1]. Takimoto-Shimomura T, et al. Dual targeting of bromodomain-containing 4 by AZD5153 and BCL2 by AZD4320 against B-cell lymphomas concomitantly overexpressing c-MYC and BCL2. Invest New Drugs. 2018 Jun 21.

Background

AZD4320 is a novel BH3-mimicking dual BCL2/BCLxL inhibitor with IC₅₀s of 26 nM, 17 nM, and 170 nM for KPUM-MS3, KPUM-UH1, and STR-428 cells, respectively.

AZD4320 potently augments the antitumor effect of AZD5153 in double expressing lymphoma (DEL)- and double hit lymphoma (DHL)-derived cell lines in a dose-dependent manner. AZD4320 shows mostly synergistic, and at least additive, growth inhibitory effects on DEL- and DHL derived cell lines, and profoundly increases cells undergoing apoptosis in all three cell lines[1].

[1]. Takimoto-Shimomura T, et al. Dual targeting of bromodomain-containing 4 by AZD5153 and BCL2 by AZD4320 against B-cell lymphomas concomitantly overexpressing c-MYC and BCL2. Invest New Drugs. 2018 Jun 21.

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