

Product Datasheet

A-1155463

Catalog No. **BP-02319** · CAS **1235034-55-5** · Form **free base** · Physical state **other** · Color **off-white to yellow** · Version **1.0** · Revision **2026-09-10**

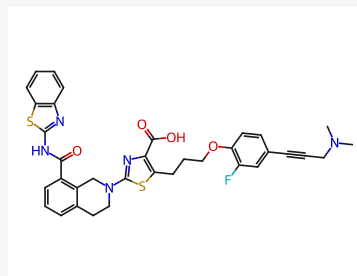
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Target Bcl-2 Family	Research area Cancer
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Molecular formula **C₃₅H₃₂FN₅O₄S₂**

Molecular weight **669.7880**

STRUCTURE



DESCRIPTION

A-1155463, a chemical probe, is a highly potent and selective BCL-XL inhibitor with an EC₅₀ of 70 nM in Molt-4 cell. A-1155463 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.

BIOLOGICAL ACTIVITY

In Vitro

A-1155463 shows picomolar binding affinity to BCL-XL (K_i 0.01 nM), and >1000-fold weaker binding to BCL-2 (K_i = 80 nM) and related proteins BCL-W (K_i = 19 nM) and MCL-1 (K_i > 440 nM) .

A-1155463 demonstrates strong growth inhibition of over half of the colorectal cell lines as defined by EC₅₀ values ≤0.5 μM in the presence of 10 % FBS.

In Vivo

A-1155463 caused a mechanism-based and reversible thrombocytopenia in mice and inhibited H146 small cell lung cancer xenograft tumor growth in vivo following multiple doses.

SOLUBILITY

Soluble in DMSO

REFERENCES

- [1]. Levenson JD, et al. Exploiting selective BCL-2 family inhibitors to dissect cell survival dependencies and define improved strategies for cancer therapy. Sci Transl Med. 2015 Mar 18;7(279):279
- [2]. Tao ZF, et al. Discovery of a Potent and Selective BCL-XL Inhibitor with in Vivo Activity. ACS Med Chem Lett. 2014 Aug 26;5(10):1088-93.

[3]. Zhang H, et al. Genomic analysis and selective small molecule inhibition identifies BCL-X(L) as a critical survival factor in a subset of colorectal cancer. Mol Cancer. 2015 Jul 2;14:126.

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Lot CoA and SDS are separate documents.