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Produktinformation



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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



ABT-199

Item No. 16233

CAS Registry No.: 1257044-40-8
Formal Name: 4-[4-[[2-(4-chlorophenyl)-4,4-dimethyl-1-cyclohexen-1-yl]methyl]-1-piperazinyl]-N-[[[3-nitro-4-[[[tetrahydro-2H-pyran-4-yl]methyl]amino]phenyl]sulfonyl]-2-(1H-pyrrolo[2,3-b]pyridin-5-yloxy)-benzamide

Synonym: GDC 0199, Venetoclax

MF: C₄₅H₅₀ClN₇O₇S

FW: 868.4

Purity: ≥98%

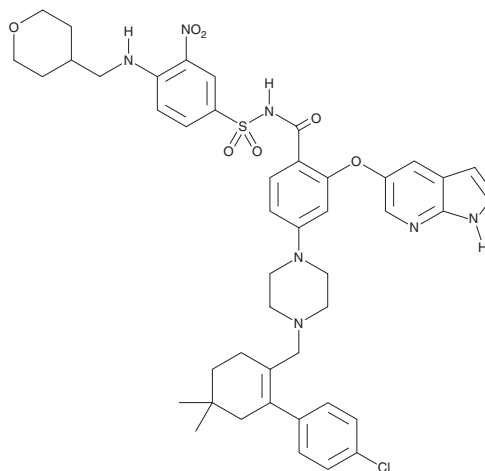
UV/Vis.: λ_{max}: 285, 320, 410 nm

Supplied as: A crystalline solid

Storage: -20°C

Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.



Laboratory Procedures

ABT-199 is supplied as a crystalline solid. A stock solution may be made by dissolving the ABT-199 in the solvent of choice, which should be purged with an inert gas. ABT-199 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of ABT-199 in these solvents is approximately 50 and 2.5 mg/ml, respectively.

ABT-199 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, ABT-199 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. ABT-199 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

B-cell lymphoma/leukemia 2 (Bcl-2) is an anti-apoptotic protein that controls cell survival by binding the BH3 domains of pro-death BAD and BAK proteins and preventing permeabilization of the mitochondrial outer membrane. This protein is tightly regulated for the homeostasis between cell growth and cell death. The gene that encodes this protein is considered an oncogene; its disruption can promote the survival of cancer cells.¹ ABT-199 is a BH3 mimetic that selectively inhibits Bcl-2 with subnanomolar affinity ($K_i < 0.010$ nM), binding over 3 orders of magnitude less avidly to the related family proteins, Bcl-xL and Bcl-W ($K_{iS} = 48$ and 245 nM, respectively).² ABT-199 inhibits the growth of Bcl-2-dependent cell lines and *in vivo* tumor xenografts.² This compound has shown antileukemic activity in patients with refractory chronic lymphocytic leukemia and holds promise to address additional Bcl-2-dependent cancers.²⁻⁴

References

1. Davids, M.S. and Letai, A. *Cancer Cell* **23(2)**, 139-141 (2013).
2. Souers, A.J., Levenson, J.D., Boghaert, E.R., *et al. Nat. Med.* **19(2)**, 202-208 (2013).
3. Tamaki, H., Harashima, N., Hiraki, M., *et al. Oncotarget* (2014).
4. Ko, T.K., Chuah, C.T.H., Huang, J.W.J., *et al. Oncotarget* **5(19)**, 9033-9038 (2014).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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