

Store at
-20°C
#79381**ABT-263 (Navitoclax)**

5 mg


Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.**Background**

ABT-263 (Navitoclax) is a potent and orally bioavailable Bcl-2 family inhibitor. This small molecule mimetic of BH3 domains specifically binds to Bcl-2, Bcl-xL, and Bcl-W with a K_i value of less than 1 nM (1). ABT-263 (Navitoclax) has been shown to have antitumor effects on small cell lung cancer (SCLC) xenograft models, resulting in complete tumor regression in some cases (2). Studies have shown that ABT-263 (Navitoclax) can enhance the effectiveness of chemotherapeutic and targeted agents against solid tumors (3). ABT-263 (Navitoclax) induces apoptosis, particularly in certain types of senescent cells (4,5).

Molecular FormulaC₄₇H₅₅ClF₃N₅O₆S₃**Molecular Weight**

974.6 g/mol

Purity

>98%

CAS

923564-51-6

Solubility

Soluble in DMSO at 25 mg/ml.

Storage

Store lyophilized at -20°C, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, store at -20°C and use within 3 months to prevent loss of potency. *Aliquot to avoid multiple freeze/thaw cycles.*

Directions for Use

ABT-263 (Navitoclax) is supplied as a lyophilized powder. For a 5 mM stock, reconstitute 5 mg of powder in 1.0 ml of DMSO. Working concentrations and length of treatment can vary depending on the desired effect.

Background References

1. Tse, C. et al. (2008) *Cancer Res* 68, 3421-8.
2. Shoemaker, A.R. et al. (2008) *Clin Cancer Res* 14, 3268-77.
3. Chen, J. et al. (2011) *Mol Cancer Ther* 10, 2340-9.
4. Zhu, Y. et al. (2016) *Aging Cell* 15, 428-35.
5. Zhu, Y. et al. (2015) *Aging Cell* 14, 644-58.

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