# ABT-263

## Bcl-2 family inhibitor

ABT-263, also known as Navitoclax, is a potent and orally bioavailable inhibitor of the Bcl-2 family proteins, specifically targeting Bcl-2, Bcl-xL, and Bcl-w with Ki values of ≤0.5 nM, ≤1 nM, and ≤1 nM, respectively.

Key features and applications include:

- **High Selectivity:** Selectively inhibits Bcl-2, Bcl-xL, and Bcl-w over other Bcl-2 family proteins.
- **Potency:** Demonstrates strong inhibitory effects with low Ki values.
- **Induce Apoptosis:** Promotes apoptosis in various cancer cell lines, including small cell lung cancer (SCLC), leukemia, and lymphoma.
- **Enhance Chemotherapy:** Synergizes with chemotherapeutic agents to enhance their efficacy.
- **Reduce Tumor Growth:** Effective in mouse xenograft models of SCLC and acute lymphocytic leukemia (ALL).

Relevant disease states include:

- **Cancer:** Active in models of SCLC, leukemia, lymphoma, and other cancers.
- **Viral Infections:** Induces apoptosis in influenza A-infected retinal pigment epithelial cells.
- **Inflammation:** Reduces inflammation and viral-induced senescence in SARS-CoV-2 infection.

## Ordering Information

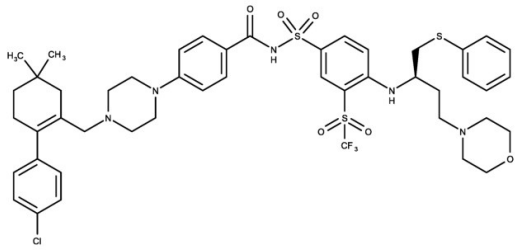
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| | |
|---|---|
| **ENZ-CHM362-0025** | 25mg |

## Manuals, SDS & CofA

View Online »

- GMP format available



## Handling & Storage

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|---|---|
| **Use/Stability** | As indicated on product label or CoA when stored as recommended. Solutions in DMSO may be stored at -20° for up to 3 months. |
| **Handling** | Keep container tightly closed in a dry and well-ventilated place. |
| **Short Term Storage** | -20°C |
| **Long Term Storage** | -20°C |
| **Shipping** | Ambient Temperature |

## Regulatory Status

RUO - Research Use Only

## Product Details

| | |
|---|---|
| **Alternative Name** | 4-[4-[[2-(4-chlorophenyl)-5,5-dimethyl-1-cyclohexen-1-yl]methyl]-1-piperazinyl]-N-[[4-[[(1R)- 3-(4-morpholinyl)-1-[(phenylthio)methyl]propyl]amino]-3-[(trifluoromethyl)sulfonyl]phenyl]sulfonyl]-benzamide, Navitoclax |
| **Appearance** | White solid. |
| **CAS** | 923564-51-6 |
| **Couple Target** | Bcl-2, Bcl-w, Bcl-X |
| **Couple Type** | Inhibitor |
| **Formula** | $C_{47}H_{55}ClF_3N_5O_6S_3$ |
| **Identity** | Determined by NMR. |
| **MW** | 974.61 |
| **Purity** | ≥98% (HPLC) |
| **Solubility** | Soluble in DMSO (up to 25 mg/ml). |

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**Last modified: March 27, 2025**

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