

Store at
-20C
#93584**ABT-737**

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-737 is a BH3 mimetic that is a potent inhibitor of multiple Bcl-2 family members, including Bcl-xL, Bcl-2, and Bcl-w that all have a K_i value of less than or equal to 1 nM (1,3). ABT-737 binds to these anti-apoptotic Bcl-2 family members and inhibits their interaction with pro-apoptotic BH3-domain proteins, leading to Bax-Bak mediated apoptosis. ABT-737 has cytotoxic activity in multiple cancer types, including small-cell lung cancer and lymphoid malignancies (2,3). It has also been shown to inhibit and regress tumor growth in xenograft tumor mouse models (3).

Molecular Formula

$C_{42}H_{45}ClN_6O_5S_2$

Molecular Weight

813.4 g/mol

Purity

>98%

CAS

852808-04-9

Solubility

Soluble in DMSO at 5 mg/mL.

Storage

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

Directions for Use

ABT-737 is supplied as a lyophilized powder. For a 10 mM stock, reconstitute 5 mg of powder in 615 μ L of DMSO. Working concentrations and length of treatment can vary depending on the desired effect.

Background References

1. Kline, M.P. et al. (2007) *Leukemia* 21, 1549-60.
2. Tahir, S.K. et al. (2007) *Cancer Res* 67, 1176-83.
3. Oltersdorf, T. et al. (2005) *Nature* 435, 677-81.

Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.

