

Product Data Sheet

Product Name: ABT-263-d8

Cat. No.: GC49745

Chemical Properties

Cas. No. 1217620-38-6

SMILES CC(C)(C1)CCC(C2=CC=C(C=C2)Cl)=C1CN3CCN(C4=CC=C(C=C4)C(NS(=O)(C5=CC(S(C(F)(F)F)(=O)=O)=C(C=C5)N[C@@H](CSC6=CC=CC=C6)CCN7C([2H])([2H])C([2H])([2H])OC([2H])([2H])C7([2H])([2H])=O)=O)CC3

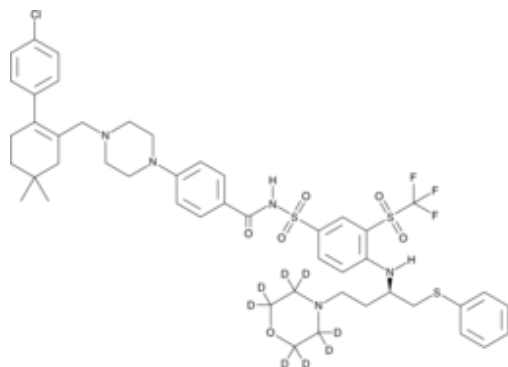
Formula C₄₇H₄₇ClD₈F₃N₅O₆S₃ M.Wt 982.7

Solubility DMF: 30mg/mL, DMF:PBS (pH 7.2) Storage -20°C
(1:2): .3mg/mL, DMSO:
25mg/mL, Ethanol: .5mg/mL

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

ABT-263-d₈ is intended for use as an internal standard for the quantification of ABT-263 by GC- or LC-MS. ABT-263 is an inhibitor of the Bcl-2 family proteins Bcl-2, Bcl-xL, and Bcl-W (K_i s = <1, <0.5, and <1 nM, respectively).¹ It is selective for Bcl-2, Bcl-xL, and Bcl-W over Mcl-1 and A1 (K_i s = 550 and 354 nM, respectively). ABT-263 is cytotoxic in a panel of small cell lung cancer (SCLC), leukemia, and lymphoma cell lines with a mean EC₅₀ value of 1 μM. It induces apoptosis in influenza

Caution: Product has not been fully validated for medical applications. For research use only.

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A-infected retinal pigment epithelial cells ($EC_{50} = 0.08 \mu M$).² ABT-263 (100 mg/kg) induces tumor regression in NCI H146 SCLC and RS4;11 acute lymphocytic leukemia (ALL) mouse xenograft models.^{1,3}

1. Tse, C., Shoemaker, A.R., Adickes, J., et al. ABT-263: A potent and orally bioavailable Bcl-2 family inhibitor. *Cancer Res.* 68(9):3421-3428 (2008)
2. Bulanova, D., Ianevski, A., Bugai, A., et al. Antiviral properties of chemical inhibitors of cellular anti-apoptotic Bcl-2 proteins. *Viruses* 9(10):E271 (2017)
3. Shoemaker, A.R., Mitten, M.J., Adickes, S., et al. Activity of the Bcl-2 family inhibitor ABT-263 in a panel of small cell lung cancer xenograft models. *Clin. Cancer Res.* 14(11):3268-3277 (2008)

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