

## Product Data Sheet

Product Name: ML311  
Cat. No.: GC33312

### Chemical Properties

Cas. No. 315698-17-0

SMILES OC1=C2N=CC=CC2=CC=C1C(N3CCN(CC)CC3)C4=CC=C(C(F)(F)F)C=C4

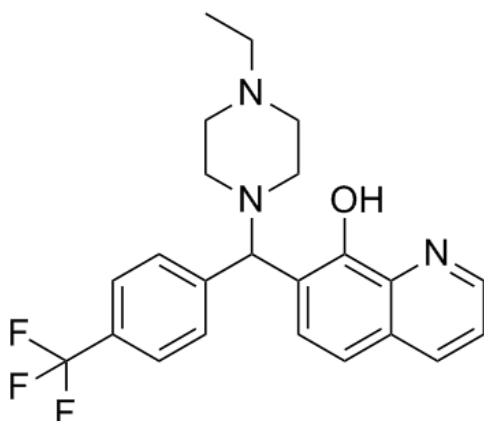
Formula  $C_{23}H_{24}F_3N_3O$  M.Wt 415.45

Solubility DMSO : 67.5 mg/mL (162.47 mM) Storage Store at -20°C

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

ML311 is a potent and selective inhibitor of the Mcl-1/Bim interaction.

ML311 potently halts viability of several types of Mcl-1 primed cells, including MCL-1-1780 (EC<sub>50</sub>=0.31 μM), DHL-6 (EC<sub>50</sub>=3.3 μM), and NCI-H929 (EC<sub>50</sub>=1.6 μM), with generally high maximal effect (>80%). ML311 also displays activity in a leukemia-derived cell line particularly reliant upon Bcl-2 function (Bcl2-1863, EC<sub>50</sub>=1.1 μM). ML311 has strong growth inhibitory effects in many cell lines, with GI<sub>50</sub><900 nM for nine cell types (RPMI-8226, SR, NCI-H322M, NCI-H60, HCC-2998,

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

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KM12, SF-295, U251, PC-3 cell lines), and  $<2\ \mu\text{M}$  for 14 additional types[1].

[1]. Bannister T, et al. ML311: A Small Molecule that Potently and Selectively Disrupts the Protein-Protein Interaction of Mcl-1 and Bim: A Probe for Studying Lymphoid Tumorigenesis. Biotechnology Information (US); 2010-2012 Apr 16.

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