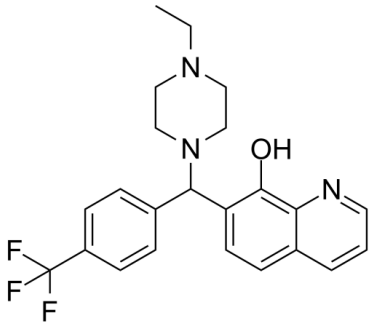
Data Sheet

Product Name:	ML311
Cat. No.:	CS-0021886
CAS No.:	315698-17-0
Molecular Formula:	C23H24F3N3O
Molecular Weight:	415.45
Target:	Bcl-2 Family
Pathway:	Apoptosis
Solubility:	DMSO : 67.5 mg/mL (162.47 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

ML311 is a potent and selective inhibitor of the **Mcl-1/Bim** interaction. IC50 & Target: Mcl-1/Bim[1]. **In Vitro:** ML311 potently halts viability of several types of Mcl-1 primed cells, including MCL-1-1780 (EC_{50}=0.31 μM), DHL-6 (EC_{50}=3.3 μM), and NCI-H929 (EC_{50}=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_{50}=1.1 μM). ML311 has strong growth inhibitory effects in many cell lines, with GI_{50}<900 nM for nine cell types (RPMI-8226, SR, NCI-H322M, NCI-H60, HCC-2998, KM12, SF-295, U251, PC-3 cell lines), and <2 μM for 14 additional types[1].

References:

[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.

CAIndexNames:

8-Quinolinol, 7-[(4-ethyl-1-piperazinyl)[4-(trifluoromethyl)phenyl]methyl]-

SMILES:

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

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

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