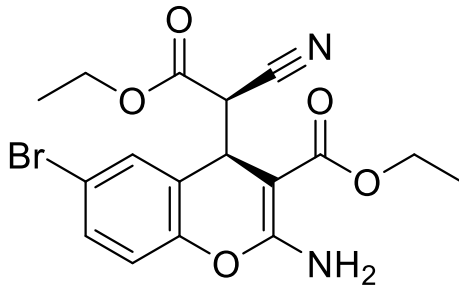


Product data sheet



MedKoo Cat#: 201460 Name: HA14-1 CAS: 65673-63-4 Chemical Formula: C ₁₇ H ₁₇ BrN ₂ O ₅ Exact Mass: 408.03208 Molecular Weight: 409.236		
Product supplied as:	Powder	
Purity (by HPLC):	≥ 98%	
Shipping conditions	Ambient temperature	
Storage conditions:	Powder: -20°C 3 years; 4°C 2 years. In solvent: -80°C 3 months; -20°C 2 weeks.	

1. Product description:

HA14-1 is a potent Bcl-2 inhibitor with potential anticancer activity. HA14-1 induces apoptosis in various human cancer cells. HA14-1 suppressed NF-kappaB activation through inhibition of phosphorylation and degradation of IkappaBalpha. This inhibition was correlated with suppression of NF-kappaB-dependent gene products (c-myc, cyclin D1, cox-2, and IAP-1). Additionally, HA14-1 also markedly sustained TNF-alpha-mediated JNK activation.

2. CoA, QC data, SDS, and handling instruction

SDS and handling instruction, CoA with copies of QC data (NMR, HPLC and MS analytical spectra) can be downloaded from the product web page under "QC And Documents" section. Note: copies of analytical spectra may not be available if the product is being supplied by MedKoo partners. Whether the product was made by MedKoo or provided by its partners, the quality is 100% guaranteed.

3. Solubility data

Solvent	Max Conc. mg/mL	Max Conc. mM
DMSO	66.0	161.28
Ethanol	82.0	200.37

4. Stock solution preparation table:

Concentration / Solvent Volume / Mass	1 mg	5 mg	10 mg
1 mM	2.44 mL	12.22 mL	24.44 mL
5 mM	0.49 mL	2.44 mL	4.89 mL
10 mM	0.24 mL	1.22 mL	2.44 mL
50 mM	0.05 mL	0.24 mL	0.49 mL

5. Molarity Calculator, Reconstitution Calculator, Dilution Calculator

Please refer the product web page under section of "Calculator"

6. Recommended literature which reported protocols for in vitro and in vivo study

In vitro study

1. Akl H, La Rovere RM, Janssens A, Vandenberghe P, Parys JB, Bultynck G. HA14-1 potentiates apoptosis in B-cell cancer cells sensitive to a peptide disrupting IP 3 receptor / Bcl-2 complexes. *Int J Dev Biol.* 2015;59(7-9):391-8. doi: 10.1387/ijdb.150213gb. PMID: 26260683.

2. Heikaus S, van den Berg L, Kempf T, Mahotka C, Gabbert HE, Ramp U. HA14-1 is able to reconstitute the impaired mitochondrial pathway of apoptosis in renal cell carcinoma cell lines. *Cell Oncol.* 2008;30(5):419-33. doi: 10.3233/clo-2008-0438. PMID: 18791273; PMCID: PMC4618985.

In vivo study

TBD

7. Bioactivity

Biological target:

HA14-1 is a Bcl-2/Bcl-X_L antagonist. HA14-1 binds the designated pocket on Bcl-2 with the IC₅₀ of ≈9 μM in competing with the Bcl-2 binding of Flu-BakBH3, and inhibits its function.

Product data sheet



In vitro activity

HA14-1 potentiated BIRD-2-induced Ca(2+) release from the ER and apoptosis in both BIRD-2-sensitive DLBCL cell lines (SU-DHL-4) and in primary B-CLL cells.

Reference: Int J Dev Biol. 2015;59(7-9):391-8. <https://pubmed.ncbi.nlm.nih.gov/26260683/>

In vivo activity

TBD

Note: The information listed here was extracted from literature. MedKoo has not independently retested and confirmed the accuracy of these methods. Customer should use it just for a reference only.