

Certificate of Analysis

Product Name: UC 112

Catalog No.: 5251

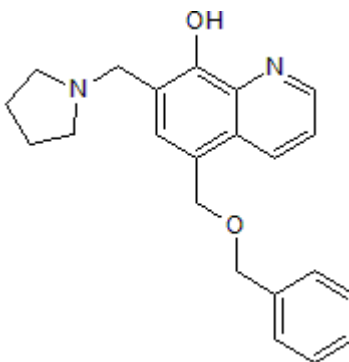
Batch No.: 1

CAS Number: 383392-66-3

IUPAC Name: 5-[(Phenylmethoxy)methyl]-7-(1-pyrrolidinylmethyl)-8-quinolinol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₂ H ₂₄ N ₂ O ₂
Batch Molecular Weight:	348.44
Physical Appearance:	White solid
Solubility:	DMSO to 100 mM ethanol to 20 mM with gentle warming
Storage:	Store at +4°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 98.9% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	

	Carbon	Hydrogen	Nitrogen
Theoretical	75.83	6.94	8.04
Found	75.89	6.88	8

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

IAP inhibitor (IC₅₀ values from 0.7 - 3.4 μM); inhibits cell growth in multiple cancer cell lines and in a melanoma xenograft model in vivo. Also suppresses X-linked inhibitor of apoptosis protein (XIAP) and survivin levels. Inhibits the growth of P-glycoproteins and activates caspase-3/7 and caspase-9.

Physical and Chemical Properties:

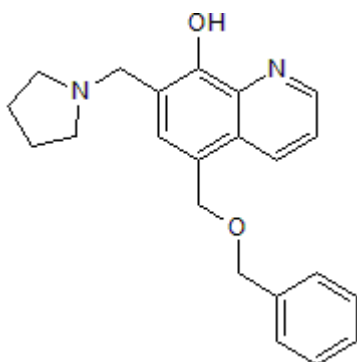
Batch Molecular Formula: C₂₂H₂₄N₂O₂

Batch Molecular Weight: 348.44

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Wang Discovery of novel second mitochondria-derived activator of caspase mimetics as selective inhibitor of apoptosis protein inhibitors. *J.Pharmacol.Exp.Ther.* **349** 319. PMID: 24623800.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 mM with gentle warming

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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