Visomitin (SKQ1)

Catalog No.C14447 Batch:C1444703

Product Datasheet

Technical Data

Formula	$C_{36}H_{42}BrO_2P$					
Molecular Weight	617.6	**CAS No.**	934826-68-3			
Solubility (25°C)*	In vitro	DMSO (warmed with 50°C water bath)	100 mg/mL (161.91 mM)			
		Ethanol (warmed with 50°C water bath)	50 mg/mL (80.95 mM)			
		Water (warmed with 50°C water bath)	3 mg/mL (4.85 mM)			
	In vivo (Add solvents to the product individually and in order)	Oral Administration	Homogeneous suspension	CMC-NA	≥5mg/ml	Taking the 1 mL working solution as an example, add 5 mg of this product to 1 ml of CMC-Na solution, mix evenly to obtain a homogeneous suspension with a final concentration of 5 mg/ml.

* <1 mg/ml means slightly soluble or insoluble.
* Please note that Capsid Bio tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.
* Room temperature shipping (Stability testing shows this product can be shipped at 2-8°C for storage purposes.)

Preparing Stock Solutions

Concentration \ Volume \ Mass	1 mg	5 mg	10 mg
1 mM	1.6192 mL	8.0959 mL	16.1917 mL
5 mM	0.3238 mL	1.6192 mL	3.2383 mL
10 mM	0.1619 mL	0.8096 mL	1.6192 mL
50 mM	0.0324 mL	0.1619 mL	0.3238 mL

Biological Activity

Description	Visomitin (SKQ1) is a novel **mitochondrial**-targeted antioxidant that holds promise in the treatment of inflammation associated with ocular surface diseases such as dry eye disease (DED) and corneal wounds. This compound shows a TC50 of 317 nM on HCjE cells.
In vitro	Visomitin (SKQ1) is a new type of mitochondrial-targeted antioxidant, which is expected to be used to treat inflammation related to ocular surface diseases such as dry eye disease (DED) and corneal wounds. This compound displays TC50 of 317 nM on HCjE cells.[1]

Protocol (from reference)

Cell Assay:[1]

- **Cell lines**
  Human conjunctival epithelial (HCjE) and corneal epithelial (HCLE) cells
- **Concentrations**
  0.25 nM-250 μM
- **Incubation Time**
  --
- **Method**
  The SkQ1 stock solution was serially diluted in culture medium, ranging from 0.25 nM to 250,000 nM, 10 × range. As a control, the diluent (50% ethanol) was also serially diluted in culture medium, ranging from 0 to 0.75%, equivalent to the concentrations carrying over from this compound. Cellular morphology changes were observed and recorded and transferred to a linked computer that ran Control My Nikon v3.0 software for further analysis. Quantitative cell viability was determined by MTT assay protocols established in the laboratory.

References

https://pubmed.ncbi.nlm.nih.gov/30565203/

RETURN POLICY

Capsid Bio's Unconditional Return Policy ensures a smooth online shopping experience for our customers. If you are in any way unsatisfied with your purchase, you may return any item(s) within 7 days of receiving it. In the event of product quality issues, either protocol related or product related problems, you may return any item(s) within 365 days from the original purchase date. Please follow the instructions below when returning products.

SHIPPING & STORAGE

Capsid Bio products are transported at room temperature. If you receive the product at room temperature, please rest assured, the Capsid Bio Quality Inspection Department has conducted experiments to verify that the normal temperature placement of one month will not affect the biological activity of powder products. After collecting, please store the product according to the requirements described in the datasheet. Most Capsid Bio products are stable under the recommended conditions.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

EU Headquarters
Gajeva ulica 28, HR-10000 Zagreb, Croatia

US Headquarters
12222 Merit Dr STE 130 Dallas, Texas, 75251

UK Headquarters
121 ABILITY HOUSE, BROOKER ROAD, EN9 1JH, ESSEX

Orders: Sales@capsidbio.com
Enquiries: info@capsidbio.com
www.capsidbio.com