BAPTA-AM

Catalog No.C12759 Batch:C1275903

Product Datasheet

Technical Data

Formula	$C_{34}H_{40}N_2O_{18}$					
Molecular Weight	764.68	**CAS No.**	126150-97-8			
Solubility (25°C)*	In vitro	DMSO	33 mg/mL (43.15 mM)			
		Water	Insoluble			
		Ethanol	Insoluble			
	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

Biological Activity

Description	BAPTA-AM is a selective, membrane-permeable **calcium** chelator.
In vitro	BAPTA-AM, as an intracellular calcium chelator, induces delayed necrosis by lipoxygenase-mediated free radicals in mouse cortical cultures. [1] This compound exerts an open channel blocking effect on hERG, hKv1.3 and hKv1.5 channels with IC50 of 1.3, 1.45 and 1.23 μM in HEK 293 cells. [2]
In vivo	BAPTA-AM abolishes the UDCA- and TUDCA-induced increases in Ca^{2+} levels or Ca2+-Dependent PKC-α phosphorylation, and neutralizes the cytoprotective effects of UDCA and TUDCA on the vagotomy-induced damage of the biliary tree in the BDL rats. [3]

Protocol (from reference)

Animal Study:[3]

- **Animal Models**
  BDL rats
- **Dosages**
  ~6 mg/kg
- **Administration**
  i.p.

References

https://pubmed.ncbi.nlm.nih.gov/11642660/ https://pubmed.ncbi.nlm.nih.gov/17826747/ https://pubmed.ncbi.nlm.nih.gov/16436655/

+ Expand

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.

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