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# DATASHEET

## BAPTA-AM

### Product overview

<b>Name</b>	BAPTA-AM
<b>Cat No</b>	HB0981
<b>Description</b>	Cell permeable Ca <sup>2+</sup> chelator
<b>Biological action</b>	Chelator
<b>Purity</b>	>95%

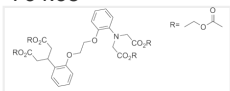
### Biological Data

<b>Biological description</b>	Cell permeable Ca <sup>2+</sup> chelator. Hydrolysed by cytosolic esterases. Useful for manipulation of cellular Ca <sup>2+</sup> levels. Open channel blocker of K <sub>v</sub> channels (IC <sub>50</sub> values are 1.3, 1.45 and 1.23 μM for K <sub>v</sub> 11.1, hK <sub>v</sub> 1.3 and hK <sub>v</sub> 1.5 channels respectively). BAPTA analog.
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### Solubility & Handling

<b>Storage instructions</b>	-20 °C
<b>Solubility overview</b>	Soluble in DMSO (30mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	1,2-Bis(2-aminophenoxy)ethane- <i>N,N,N',N'</i> -tetraacetic acid tetrakis(acetoxymethyl ester)
<b>Molecular Weight</b>	764.68
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>34</sub> H <sub>40</sub> N <sub>2</sub> O <sub>18</sub>
<b>CAS Number</b>	126150-97-8
<b>PubChem identifier</b>	2293
<b>SMILES</b>	<chem>O=C(OCOC(C)=O)CN(CC(OCOC(C)=O)=O)C1=CC=CC=C1OCCOC2=CC=CC=C2N(CC(OCOC(C)=O)=O)CC(OCOC(C)=O)=O</chem>
<b>InChiKey</b>	YJIYWYAMZFVECX-UHFFFAOYSA-N

### References

**The membrane permeable calcium chelator BAPTA-AM directly blocks human ether a-go-go-related gene potassium channels stably expressed in HEK 293 cells.**

Tang Q *et al* (2007) *Biochem Pharmacol* 74(11)

**PubMedID** [17826747](#)

**Nonsteroidal anti-inflammatory drug flufenamic acid is a potent activator of AMP-activated protein kinase.**

Chi Y *et al* (2011) *J Pharmacol Exp Ther* 339(1)

PubMedID

21765041

**BAPTA/AM, an intracellular calcium chelator, induces delayed necrosis by lipoxygenase-mediated free radicals in mouse cortical cultures.**

Wie MB *et al* (2001) Prog Neuropsychopharmacol Biol Psychiatry 25(8)

PubMedID

11642660

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