Overview

Product name: E6 Berbamine, calmodulin (CaM) antagonist

Description: Selective, cell-permeable calmodulin (CaM) antagonist

Biological description: Selective, cell-permeable CaM antagonist. Berbamine derivative. Inhibits calmodulin-dependent MYLK and PDE1 (IC\textsubscript{50} values are 8 and 0.53 μM for MYLK and PDE1 respectively).

Purity: > 98%

CAS Number: 73885-53-7

Chemical structure:

![Chemical structure of E6 Berbamine](image)

Properties

Chemical name: 6,6',7-Trimethoxy-2,2'-dimethylberbaman-12-yl acetate

Molecular weight: 757.80

Molecular formula: C\textsubscript{44}H\textsubscript{43}N\textsubscript{3}O\textsubscript{9}

PubChem identifier: 6610268

Storage instructions: Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.

Solubility overview: Soluble in DMSO to 25 mM and in ethanol to 25 mM

Handling: Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial, we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage, and handling? Please visit our frequently asked questions.
(FAQ) page for more details.

SMILES

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CN1CCC2=CC(=C3C=C4)OC5=C(=C(C=C5)CC6C7=C(O3)C(=C(C=C7CCN6C)OC)OC(=O)C8=CC=CC=C8][N+]\(=\)O\(-\)OC
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Source

Synthetic

Please note: All products are “FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS”

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