Penitrem A ab141842

Overview

Product name
Penitrem A

Description
Selective blocker of KCa1.1

Biological description
Potent, selective BKCa blocker (IC50 values are 6 and 60 nM for α-subunit and mixed α- and β1-subunit containing channels respectively). No effect on native delayed rectifier K+ currents, cloned voltage-dependent Kv1.5 channels, or KATP currents. Inhibits BK channels in inside-out and cell-attached patches. Tremorgenic effects and increases total peripheral resistance in vivo. Orally active.

Purity
> 98%

Properties

Chemical name
(2R,3S;3aR,4aS,4bS,6aR,7S,7dR,8R,9a-,14bS,14cR,16aS)-12-Chloro-3,3a,6a,8,9a,10,11,14-,14b,14c,15,16,16a-tetradecahydro-14b,14c,17,17-te-tramethyl-10-methylene-2-(1-methylethenyl)-7,8-(ep-oxyphonylano)-2H,6H-cyclobuta[5,6]benz[1,2-e]oxireno-[4′,4′a]-1-benzopyrano[5′,6′:6,7]indeno[1,2-b]indole-3-,4b,7d(5H,7H)-triol

Molecular weight
634.20

Chemical structure

Molecular formula
C37H44ClNO6

CAS Number
12627-35-9

PubChem identifier
44450809

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 10 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.
Toxic, refer to SDS for further information.

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

**SMILES**

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CC(=C)C1C(C2C3(O2)C(O1)CCC4(C3(CCC5C4(C6=C7C5OC(C8CC9C8(C1=C7C(=CC(=C1CC9=C)C\N6)O)(C)C)C)C)O)C)O
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**Source**

*Penicillium palitans*

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**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS"

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