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DATASHEET

Verruculogen

Product overview

Name Verruculogen Cat No HB4120 **Purity** >97%

Description Selective $K_{Ca}1.1$ channel blocker

Biological Data

Biological description

Fumitremorgin-type alkaloid. Tremorgenic neurotoxic mycotoxin. Selective blocker of KCa1. 1 (highconductance Ca2+-activated K+; BK; maxi-K) channels. Decreases GABA levels in CNS. Increases spontaneous glutamate and aspartate release. At toxic doses, increases the number and decreases the affinity of DHP receptors in rat cortex. Cell cycle inhibitor at the M phase. Inhibits calmodulin and PKC activity. Has apoptotic effects on human T lymphocytes. Stimulates the growth of seedling roots of buckwheat.

Solubility & Handling

Storage instructions Storage of solutions +4°C

Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Shipping Conditions

Important

Stable for ambient temperature shipping. Follow storage instructions on receipt.

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use.

Chemical Data

Molecular Weight Chemical structure 511.57

Molecular Formula **CAS Number PubChem identifier**

SMILES InChiKey **Appearance** $C_{27}H_{33}N_3O_7$ 12771-72-1

COc1ccc2c(c1)n3C(OOC(C)(C)CC4N5C(=O)C6CCCN6C(=O)C5(O)C(O)c2c34)C=C(C)C

LRXYHMMJJCTUMY-GWXUGYLUSA-N

White to off-white solid