Labmix24 GmbH
Kesseldorfer Rott 24
46499 Hamminkeln
Germany

Tel: +49 (0) 2852 96064 00
Fax: +49 (0) 2852 96064 24
Web: www.labmix24.com
E-Mail: info@labmix24.com

PP2A Activating Ligand, ITH12246 - Calbiochem

Art. ID	SAF-5060740001
Unit	EA

Description

A cell-permeable, relatively non-toxic, 1,8-naphthyridine derived compound that blocks the inhibitory effect of protein phosphatase inhibitors, such as okadaic acid, on protein phosphatase 2A (PP2A). Exhibits blood-brain barrier permeability. Protects neurons against beta-amyloid peptides (Ab1-42) toxicity and okadaic acid (Cat. No. 459620)-induced tau hyperphosphorylation. Also protects against rotenone and oligomycin A induced neurotoxicity in SH-SY5Y neuroblastoma cells (at ~300 nM). Prevents the development of glutamate-induced neuronal lesions in rat hippocampal slices by up-regulating PP2A (~ 3.0 &#181,M). Shown to reverse the scopolamine-induced memory loss in mice (~10 mg/kg i.p) and significantly reduces the infarct volume in an animal model of stroke (~2.5 mg/kg). Also acts as an inhibitor of acetylcholinesterase activity in Electrophorus electricus (IC50 = 60 nM) and human erythrocytes (IC50 = 780 nM).