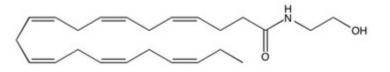
Tribioscience

Synaptamide, Endogenous agonist at GPR110

Catalog	Unit
TBI1194-5MG	5 mg
TBI1194-25MG	25 mg

Product Details

Formal Name: N-Docosahexaenoylethanolamide Alternate Names: DHA-ethanolamide Molecular Formula: $C_{24}H_{37}NO_2$ Formula Weight: 371.56 CAS Number: 162758-94-3 Purity: >98% Formulation: Oil Solubility: Soluble in DMSO (up to 35 mg/ml). Storage: -80°C Stability: \geq 1 year.



Applications

Endogenous agonist at GPR110

Functions

Anandamide-like lipid mediator produced from DHA in the brain. Stimulates neurite growth, synaptogenesis and glutamatergic synaptic activity in developing hippocampal neurons at 10-100 nM. Potently induces neuronal differentiation of neural stem cells. Promotes growth of cortical axons vial modulation of hedgehog signaling. Binds to and activates orphan receptor GPR110, stimulating cAMP production at low nM concentrations. Reduces LPS-induced TNFα production in cultured microglia cells and ameliorates LPS-induced neuroinflammation in a mouse model.

Application Procedures

First dissolved in DMSO (up to 35 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored under inert gas at -80°C for up to 3 months.

For research use only.