Product Data Sheet

Product Name: Paliperidone
CAS No.: 144598-75-4
Cat. No.: HY-A0019
MWt: 426.48
Formula: C23H27FN4O3
Purity: >98%

Solubility: DMSO ≥15mg/mL Water <1.2mg/mL
            Ethanol ≥8mg/mL

Mechanisms: Pathways: Neuronal Signaling; Target: Dopamine Receptor
            Pathways: GPCR/G protein; Target: Dopamine Receptor

Biological Activity:
Paliperidone (9-hydroxyrisperidone) is a dopamine antagonist of the atypical antipsychotic class of medications.
IC50 value:
Target: dopamine receptor
In vitro: Paliperidone inhibited MK-801 induced neurotoxicity both in MTT metabolism assay (p<0.01) and in lactate dehydrogenase (LDH) activity assay (p<0.01). Moreover, paliperidone could significantly retard MK-801-mediated inhibition of neurite outgrowth (p<0.01) and reverse MK-801-induced decreases of gene expression and phosphorylation of Akt1 and GSK3β (both p<0.01). Furthermore, these protective effects of paliperidone were blocked by pretreatment with a PI3K inhibitor LY294002 [1]. paliperidone works finely at low concentrations (10 and 50 \( \mu \)M) against Aβ(25-35) and MPP(+) and solely protected SH-SY5Y from hydrogen peroxide. At 100 \( \mu \)M, paliperidone completely diminished cell reduction induced by different stres...

References:

Caution: Not fully tested. For research purposes only

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