



SAGE-217

Catalog No: tcsc0023489

Available Sizes
Size: 1mg
Size: 5mg
Size: 10mg
Size: 50mg
Size: 100mg
Specifications
CAS No: 1632051-40-1
Formula: C ₂₅ H ₃₅ N ₃ O ₂
Pathway: Neuronal Signaling;Membrane Transporter/Ion Channel
Target: GABA Receptor;GABA Receptor
Purity / Grade: >98%
Solubility: DMSO : ≥ 100 mg/mL (244.16 mM)
Observed Molecular Weight: 409.56



Product Description

SAGE-217 is a potent $GABA_A$ receptor agonist with EC_{50} s of 296 and 163 nM for $\alpha_1\beta_2\gamma_2$ and $\alpha_4\beta_3\delta$ $GABA_A$ receptors, respectively.

IC50 & Target: EC50: 296 nM ($\alpha_1 \beta_2 \gamma_2$ GABA, receptor), 163 nM ($\alpha_4 \beta_3 \delta$ GABA, receptor)^[1]

In Vitro: Kinase assay demonstrates that SAGE-217 is a potent GABA_A receptor agonist with EC₅₀s of 296 and 163 nM for $\alpha_1\beta_2\gamma_2$ and $\alpha_4\beta_3\delta$ GABA_A receptors, respectively. SAGE-217 is currently being studied in parallel phase 2 clinical trials for the treatment of postpartum depression (PPD) and major depressive disorder (MDD). SAGE-217 shows >30 μ M inhibition in a cardiac panel of eight relevant cardiac ion channels. At 10 μ M concentration of SAGE-217, only binding at the glycine (57%), sigma receptors (88%), and inhibition of the transient receptor potential vanilloid 1 (TRPV1, 95%) is noted^[1].

In Vivo: Acute administration of SAGE-217 (0.3 to 10 mg/kg, ip) effectively reduces pentylenetretazol (PTZ)-induced seizures in mice (MEC_{plasma}=85 nM) as well as produces a dose-dependent anticonvulsant effect in the mouse 6 Hz electrical stimulation model. In the rat lithium-pilocarpine model of status epilepticus (SE), SAGE-217 (0.3 to 5 mg, iv) abolishes both behavioral and electrographic seizure activity, even when administered 60 min after induction of SE. Additional PK studies of SAGE-217 in dog show low clearance ([1].

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!