

Agmatine Sulfate-15N2, 13C

Art. ID TRC-A426903-50MG
Unit 50 mg

Description

Category: Amines, Amino Acids and Derivatives, Isotope Labelled Compounds, Neurochemicals, Pharmaceuticals, Intermediates and Fine Chemicals /// Application Notes: General Uses: Neuroprotective, CNS studies, Autism and depression research
Description: Agmatine Sulfate-15N2, 13C is a labeled analogue of Agmatine Sulfate (A426900), a polyamine derived from L-arginine (A769500) decarboxylation and is a known putative endogenous neurotransmitter at imidazoline receptors. Agmatine sulfate displaces clonidine at alpha2-adrenergic and at imidazoline receptors and was recently shown to exert some neuroprotective effects. It blocks NMDA-receptor associated cation channels. Acts as a competitive inhibitor of nitric oxide synthase (NOS). It functions as neurotransmitter since it is stored in synaptic vesicles and is released from axon terminals by depolarization(1). Protects autistic behavior in rats (2) and reverses depressive like behavior in mice. (3)

Text/Information	Analyte/Parameter	CAS number	Concentration/Value	Unit	Method	Source
	Agmatine Sulfate-15N2, 13C					