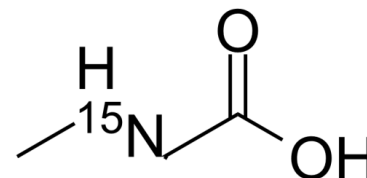


Data Sheet

Product Name:	Sarcosine-15N
Cat. No.:	CS-0376577
Molecular Formula:	C ₃ H ₇ ¹⁵ N ₂ O ₂
Molecular Weight:	90.09
Target:	Endogenous Metabolite; GlyT
Pathway:	Membrane Transporter/Ion Channel; Metabolic Enzyme/Protease; Neuronal Signaling
Solubility:	10 mM in DMSO



BIOLOGICAL ACTIVITY:

Sarcosine-15N (N-Methylglycine-15N) is the 15N-labeled Sarcosine. Sarcosine (N-Methylglycine), an endogenous amino acid, is a competitive **glycine transporter type I (GlyT1)** inhibitor and **N-methyl-D-aspartate (NMDA) receptor** co-agonist. Sarcosine increases the glycine concentration, resulting in an indirect potentiation of the NMDA receptor. Sarcosine is commonly used for the research of schizophrenia^{[1][2]}. **In Vitro:** Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1].

References:

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.

CAIndexNames:

Sarcosine-15N

SMILES:

O=C(C[15NH]C)O

Caution: Product has not been fully validated for medical applications. For research use only.

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