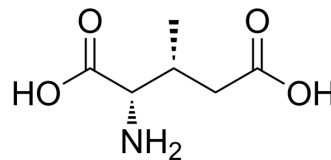


(±)-threo-3-Methylglutamic acid

Cat. No.:	HY-101227
CAS No.:	63088-04-0
Molecular Formula:	C ₆ H ₁₁ NO ₄
Molecular Weight:	161.16
Target:	EAAT
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(±)-threo-3-Methylglutamic acid is a potent EAAT2/4 inhibitor. (±)-threo-3-Methylglutamic acid also is an ionotropic glutamate receptor agonist. (±)-threo-3-Methylglutamic acid inhibits glutamate uptake by rod outer segments ^{[1][2]} .	
IC ₅₀ & Target	EAAT2	EAAT4
In Vitro	(±)-threo-3-Methylglutamic acid (0-300 μM) inhibits glutamate uptake by rod outer segments in a concentration-dependent manner with an IC ₅₀ value of 38.35 μM ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Eliasof S, et al. Pharmacological characterization of threo-3-methylglutamic acid with excitatory amino acid transporters in native and recombinant systems. *J Neurochem.* 2001 Apr;77(2):550-7.

[2]. Pignataro L, et al. Nonsynaptic localization of the excitatory amino acid transporter 4 in photoreceptors. *Mol Cell Neurosci.* 2005 Mar;28(3):440-51.

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

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