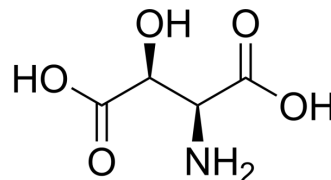


L-threo-3-Hydroxyaspartic acid

Cat. No.:	HY-100801
CAS No.:	7298-99-9
Molecular Formula:	C ₄ H ₇ NO ₅
Molecular Weight:	149.1
Target:	EAAT
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	L-threo-3-Hydroxyaspartic acid is a potent EAAT inhibitor with K _i s of 11, 19 and 14 μM for EAAT1, EAAT2 and EAAT3, respectively in HEK293 cell lines ^[1] .
IC ₅₀ & Target	Ki: 11 μM (EAAT1), 14 μM (EAAT3), 19 μM (EAAT2) ^[1]

REFERENCES

[1]. Hara R, et al Production of L-threo-3-Hydroxyaspartic Acid Using Asparaginase-Deficient *Escherichia coli* Expressing Asparagine Hydroxylase of *Streptomyces coelicolor* A3(2). *Appl Environ Microbiol.* 2015 Jun;81(11):3648-54

[2]. Jensen AA, Bräuner-Osborne H. Pharmacological characterization of human excitatory amino acid transporters EAAT1, EAAT2 and EAAT3 in a fluorescence-based membrane potential assay. *Biochem Pharmacol.* 2004 Jun 1;67(11):2115-27.

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

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