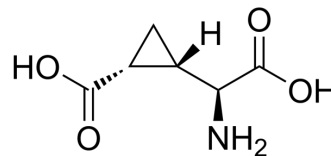


cis- α -(Carboxycyclopropyl)glycine

Cat. No.:	HY-100838
CAS No.:	117857-95-1
Molecular Formula:	C ₆ H ₉ NO ₄
Molecular Weight:	159.14
Target:	EAAT
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	cis- α -(Carboxycyclopropyl)glycine (L-CCG III) is a potent, competitive glutamate uptake inhibitor. cis- α -(Carboxycyclopropyl)glycine is a substrate of glutamate transporters (GluT) (EC ₅₀ : 13 μ M, 2 μ M for EAAT 1 and EAAT 2, respectively). cis- α -(Carboxycyclopropyl)glycine inhibits a Na ⁺ -dependent high-affinity L-glutamate uptake in glial plasmalemmal vesicles (GPV) and synaptosomes ^{[1][2]} .	
IC ₅₀ & Target	EAAT1	EAAT2

REFERENCES

[1]. Y Nakamura, et al. (2S,3S,4R)-2-(carboxycyclopropyl)glycine, a potent and competitive inhibitor of both glial and neuronal uptake of glutamate. *Neuropharmacology*. 1993 Sep;32(9):833-7.

[2]. Charbel El-Hajj Moussa, et al. Effects of L-glutamate transport inhibition by a conformationally restricted glutamate analogue (2S,1'S,2'R)-2-(carboxycyclopropyl)glycine (L-CCG III) on metabolism in brain tissue in vitro analysed by NMR spectroscopy. *Neurochem Res*. 2002 Feb;27(1-2):27-35.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA