TACA

Cat. No.:	HY-100800				
CAS No.:	38090-53-8				
Molecular Formula:	C ₄ H ₇ NO ₂				
Molecular Weight:	101.1				
Target:	GABA Receptor				
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

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	Preparing Stock Solutions	1 mM	9.8912 mL	49.4560 mL	98.9120 mL
		5 mM	1.9782 mL	9.8912 mL	19.7824 mL
		10 mM	0.9891 mL	4.9456 mL	9.8912 mL

BIOLOGICAL ACTIVITY		
Description	TACA (trans-4-Aminocrotonic acid) is a potent agonist of GABA _A and GABA _C receptors (K _D = 0.6 μM). TACA also is GABA uptake inhibitor and substrate for GABA-T. TACA produces late biphasic responses in the MPG neurons ^{[1][2][3]} .	
IC ₅₀ & Target	K _D : 0.6 μM (GABA _C) ^[1] .	
In Vivo	TACA is a potent competitive inhibitor of GABA uptake in rat brain slices and thus is possibly a substrate for the GABA uptake system ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

 H_2N_{\searrow}

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[1]. Chebib M, et al. Analogues of gamma-aminobutyric acid (GABA) and trans-4-aminocrotonic acid (TACA) substituted in the 2 position as GABAC receptor antagonists. Br J Pharmacol. 1997;122(8):1551-1560.

[2]. Akasu T, et al. Role of GABAA and GABAC receptors in the biphasic GABA responses in neurons of the rat major pelvic ganglia. J Neurophysiol. 1999;82(3):1489-1496.

[3]. Johnston GA, et al. Cis- and trans-4-aminocrotonic acid as GABA analogues of restricted conformation. J Neurochem. 1975;24(1):157-160.

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

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