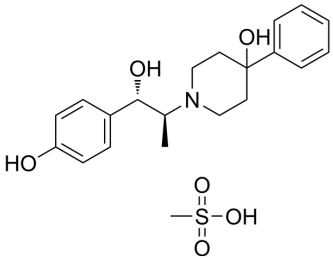
Traxoprodil mesylate

Cat. No.:	HY-W018061A
CAS No.:	188591-67-5
Molecular Formula:	$C_{21}H_{29}NO_6S$
Molecular Weight:	423.52
Target:	iGluR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Traxoprodil mesylate (CP101,606) is a potent and selective NMDA antagonist and protect hippocampal neurons with an IC_{50} of 10 nM.
In Vivo	Traxoprodil is potent at blocking haloperidol-induced catalepsy and with an ED_{50} less than 1 mg/kg. Traxoprodil is effective at 1 mg/kg to block NMDA (ip) stimulated cfos induction in mice[1]. Traxoprodil at a dose of 20 and 40 mg/kg exhibits antidepressant activity in the Forced swim test and it is not related to changes in animals' locomotor activity[2]. Traxoprodil (20 nM i.c.v.) increases the latency to generalized tonic-clonic seizures induced by PTZ (70 mg/kg; i.p.). Traxoprodil (60 mg/kg, p.o.) increases the latency to clonic and generalized seizures, and decreases the total time spent in seizures[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- J Biochem. 2021 Dec 15;mvab140.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Chenard BL, et al. (1S,2S)-1-(4-hydroxyphenyl)-2-(4-hydroxy-4-phenylpiperidino)-1-propanol: a potent new neuroprotectant which blocks N-methyl-D-aspartate responses. J Med Chem. 1995 Aug 4;38(16):3138-45.

[2]. Poleszak E, et al. Traxoprodil, a selective antagonist of the NR2B subunit of the NMDA receptor, potentiates the antidepressant-like effects of certain antidepressant drugs in the forced swim test in mice. Metab Brain Dis. 2016 Aug;31(4):803-14.

[3]. Naspolini AP, et al. Traxoprodil decreases pentylenetetrazol-induced seizures. Epilepsy Res. 2012 Jun;100(1-2):12-9.

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