

Product Name: (+)-MK 801 Maleate Revision Date: 11/15/2023

COOH

Product Data Sheet

(+)-MK 801 Maleate

Cat. No.: A8896

CAS No.: 77086-22-7 Formula: C20H19NO4

M.Wt: 337.37

Synonyms:

Membrane Transporter/Ion Channel Target:

Pathway: NMDA Receptor Storage: Store at -20°C





 \geqslant 16.85 mg/mL in DMSO; \geqslant 28.5 mg/mL in EtOH; \geqslant 5.12 mg/mL in H2O

In Vitro

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	2.9641 mL	14.8205 mL	29.6410 mL
	5 mM	0.5928 mL	2.9641 mL	5.9282 mL
	10 mM	0.2964 mL	1.4821 mL	2.9641 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Potent NMDA antagonist		
	SIQUIT COUNT	
Cell Viability Assay	E la procedit	
Cell Line; pod com	Primary mixed neuronal/glial cultures from fetal rat brains.	
Preparation method:	The solubility of this compound in DMSO is >16.9mg/mL. General tips for	
	obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes	
	and/or shake it in the ultrasonic bath for a while. Stock solution can be stored	
	below -20°C for several months.	
Reacting conditions:	10 μM for 30 minutes	
	Cell Viability Assay Cell Line: Preparation method: Reacting conditions:	

	Applications:	NMDA induced apoptosis in mixed neuronal/glial cell cultures. In the presence		
		of a mild excitotoxic insult, this investigation showed an attenuation of apoptotic		
		cell death by MK 801.		
	Animal experiment			
In Vivo	Animal models:	C57BL/6; BALB/c mice		
	Dosage form:	s.c. or i.p., 0.1 mg kg(-1)		
	Applications:	MK 801 in the chronically C57BL/6 chronic stress group that prevented weight		
		gain deficit. For the C57BL/6 strain chronic MK 801 produced an alteration of		
		the fur state. In the CA1 layer of chronically stressed C57BL/6 mice, MK 801		
		induced an increase of VGLUT1 immunoreactivity. For the BALB/c group, MK		
		801 enhanced BDNF mRNA in the chronic stress group in the DG. In the		
		chronically stressed BALB/c mice, MK 801 prevented stressed induced		
		VGLUT3 immunoreactivity up-regulation in the CA3 layer.		
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may		
	The United Will	slightly differ with the theoretical value. This is caused by an experimental		
	P tetion Etdorie	system error and it is normal.		

Product Citations

See more customer validations on www.apexbt.com.

References

- [1]. Wise-Faberowski L,Pearlstein RD,Warner DS., et al. NMDA-induced apoptosis in mixed neuronal/glial cortical cell cultures: the effects of isoflurane and dizocilpine. J Neurosurg Anesthesiol.2006 Oct;18(4):240-6.
- [2] .Farley S, Dumas S, El Mestikawy S ., et al. Increased expression of the Vesicular Glutamate Transporter-1 (VGLUT1) in the prefrontal cortex correlates with differential vulnerability to chronic stress in various mouse strains: effects of fluoxetine and MK-801. Neuropharmacology. 2012 Jan;62(1):503-17.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.



APExBIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054. Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com



ARE LEGISTRES DE L

AREL ENDOGEN

The section of the se

Edward Sales Land III Bade of the June of

Langue De l'account, conque l'une princent

Reduce Cartesian Explore the University