

Monoamine oxidase, plasma

Cat. No.:	HY-E70074		
CAS No.:	9001-66-5		
Target:	Monoamine Oxidase		
Pathway:	Neuronal Signaling		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month

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BIOLOGICAL ACTIVITY

Description

Monoamine oxidase (EC 1.4.3.4) is an enzyme composed of different polypeptides. Monoamine oxidation catalyzes the oxidative deamination of various biological amines in brain and peripheral tissues by producing hydrogen peroxide. Monoamine oxidase plays an important role in maintaining the regulation of synaptic transmission, emotional behavior and other brain functions^{[1][2]}.

In Vitro

Monoamine oxidase has some isoenzymes, the most typical of which are monoamine oxidase (MAO) A and MAOB. MAOA is usually inhibited by low concentrations of Clorgyline (HY-14197A) and MAOB is usually inhibited by low concentrations of l-deprenyl^[3].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Shih JC, et al. Monoamine oxidase: from genes to behavior. *Annu Rev Neurosci.* 1999;22:197-217.
- [2]. Bortolato M, et al. Monoamine oxidase inactivation: from pathophysiology to therapeutics. *Adv Drug Deliv Rev.* 2008 Oct-Nov;60(13-14):1527-33.
- [3]. Youdim MB, et al. The therapeutic potential of monoamine oxidase inhibitors. *Nat Rev Neurosci.* 2006 Apr;7(4):295-309.

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

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