

Recombinant Human Monoamine Oxidase B

Cat. No. MAOB-1369H Lot. No. (See product label)

SPECIFICATION

Product Overview MAO-B Human Recombinant produced in E.Coli is single, a non-glycosylated, Polypeptide chain containing 488 amino acids fragment (2-489) corresponding to the cytoplasmic domain fragment of the mature protein, having a total molecular mass of 59.84kDa and fused with a 4.5kDa amino-terminal hexahistidine tag. The MAO-B is purified by proprietary chromatographic techniques.

Species Human

Source Human

ProteinLength 2-489 a.a.

Description MAO-B is a member of the flavin monoamine oxidase family. MAO-B (Monoamine oxidase B) is a flavin-containing mitochondrial enzyme that catalyzes the oxidative deamination of biogenic and xenobiotic monoamines. MAO-B controls the metabolic degradation of catecholamines and serotonin in neural and other target tissues. MAO-B is located in platelets and in dopamine-secreting neurons in the brain. MAOB and MAOA genes have an imperative function in dopamine degradation. Benzylamine and phenylethylamine are preferentially degraded by MAOB. The MAOB gene is linked to autistic traits, empathy and Asperger syndrome. Amplified levels of MAO B are identified in the brain of Alzheimer's patients. High phenylethylamine levels in neonates as a result of low MAOB are consistent with phenylketonuria in newborns. Polymorphisms in MAO-B are connected to smoking behavior.

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Form	MAO-B protein is supplied in 20mM Tris-HCl, pH 8.0, 250mM NaCl, 1mM EDTA and 50% glycerol.
Purity	Greater than 95.0% as determined by SDS-PAGE.
Physical Appearance	Sterile Filtered clear solution.
Storage	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

GENE INFORMATION

Gene Name	MAOB monoamine oxidase B [Homo sapiens]
Official Symbol	MAOB
Synonyms	MAOB; monoamine oxidase B; MGC26382; amine oxidase [flavin-containing] B; MAO-B; MAO, brain; MAO, platelet; tyramine oxidase; adrenalin oxidase; OTTHUMP00000023166; monoamine oxidase type B; Amine oxidase [flavin-containing] B; Monoamine oxidase type B; EC 1.4.3.4; EC 1.4.3
Gene ID	4129
mRNA Refseq	NM_000898
Protein Refseq	NP_000889
MIM	309860
UniProt ID	P27338

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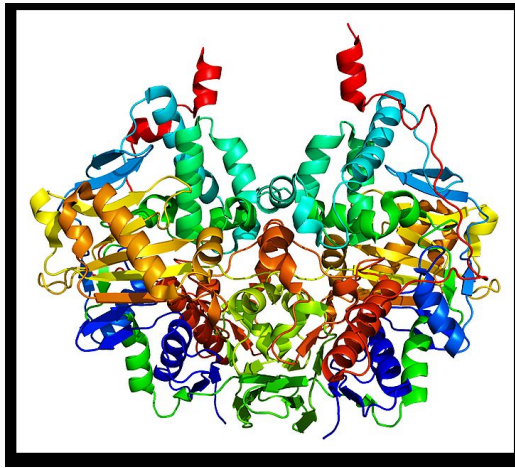
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**Chromosome
Location** Xp11.23

Function electron carrier activity; flavin adenine dinucleotide binding; oxidoreductase activity;
primary amine oxidase activity; protein homodimerization activity

**PDBrendering based
on 1gos.**



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