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MAO B Human

Catalog #:ENPS-447

For research use only.

Description: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.

Synonyms: Amine oxidase [flavin-containing] B, Monoamine oxidase type B, MAO-B, MAOB, MGC26382.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear solution.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:
MAO-B protein is supplied in 20mM Tris-HCl, pH 8.0, 250mM NaCl, 1mM EDTA and 50% glycerol.

Stability:
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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
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 Alzheimers 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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