
Product Data Sheet

Product Name: MAO B Human
Cat. No.: GP21899
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Amine oxidase [flavin-containing] B; Monoamine oxidase type B; MAO-B; MAOB; MGC26382.		
Formulation	MAO-B protein is supplied in 20mM Tris-HCl, pH 8.0, 250mM NaCl, 1mM EDTA and 50% glycerol.		

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 DOPA-secreting neurons in the brain. MAOB and MAOA genes have an imperative function in DOPA 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.

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.

Background

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

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Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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fused with a 4.5kDa amino-terminal hexahistidine tag. The MAO-B is purified by proprietary chromatographic techniques.

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