
Product Data Sheet

Product Name: MAOA Human
 Cat. No.: GP21898
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Monoamine Oxidase A; Monoamine Oxidase Type A; EC 1.4.3.4; MAO-A; Amine Oxidase [Flavin-Containing] A; EC 1.4.3; Amine oxidase[flavin-containing] A; Monoamine oxidase type A.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMENQEKA SIAGHMFV VIGGGISGLS AAKLLTEYGV SVLVLEARDRVGGRTYTIRN EHVDYVDVGG AYVGPTQNR LRLSKELGIE TYKVNVSERL VQYVKGKTYP FRGAFPPVWNPIAYLDYNNL WRTIDNMGKE IPTDAPWEAQ HADKWDKMTM KELIDKICWT KTARRFAYLF VNINVTSEPHEVSALWFLWY VKQCGGTTRI FSVTNGGQER KFGGGSGQVS ERIMDLLGDQ VKLNHPVTHV DQSSDNIIIETLNHEHYECK YVINAIPPTL TAKIHFPEL PAERNQLIQR LPMGAVIKCM MYYKEAFWKK KDYCGCMIIEDEDAPISITL DDTKPDGSLP AIMGFILARK ADRLAKLHKE IRKKKICELY AKVLGSQEAL HPVHYEKNWCEEQYSGGCY TAYFPPGIMT QYGRVIRQPV GRIFFAGTET ATKWSGYMEG AVEAGERAAR EVLNGLGKVTEKDIWVQEPE SKDVPAVEIT HTFWERNLPS.		
Formulation	MAO protein solution (0.5mg/ml) containing 20mM Tris-HCl (pH8.0) and 10% glycerol.		

Introduction

Monoamine Oxidase A, also known as MAOA catalyzes the oxidative deamination of biogenic as well as xenobiotic amines and has significant functions in the metabolism of neuroactive and vasoactive amines in the central nervous system as well as peripheral tissues. Mutation in MAOA results in Brunner syndrome; in addition MAOA has also been linked with a diversity of other psychiatric disorders, which includes antisocial behavior. MAOA preferentially oxidizes biogenic amines such as 5-hydroxytryptamine (5-HT).

Stability

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

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Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

MAOA Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 520 amino acids (1-497 a.a) and having a molecular mass of 58.8kDa. MAOA is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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