
Product Data Sheet

Product Name: DAAO Human, Active

Cat. No.: GP26144

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	D-Amino Acid Oxidase 2, D-Amino-Acid Oxidase, EC 1.4.3.3, DAMOX, DAAO, EC 1.4.3, OXDA.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MRVVVIGAGV IGLSTALCIH ERYHSVLQPL DIKVYADRFT PLTTTDVAAG LWQPYLSDPN NPQEADWSQQ TFDYLLSHVH SPNAENLGLF LISGYNLFHE AIPDPSWKDT VLGFRKLTTPR ELDMFPDYGY GWFHTSLILE GKNYLQWLTE RLTERGVKFF QRKVESFEEV AREGADVIVN CTGVWAGALQ RDPLLQPGRG QIMKVDAPWM KHFILTHDPE RGIYNSPYII PGTQTVTLGG IFQLGNWSEL NNIQDHNTIW EGCCRLEPTL KNARIIGERT GFRPVRPQIR LEREQLRTGP SNTTEVIHNYG HGGYGLTIHW GCALEAAKLF GRILEEKKLS RMPPSHL.		
Formulation	DAAO Human protein (0.5mg/ml) is formulated in 20mM Tris-HCl buffer (pH 8.0), 20% glycerol & 1mM DTT..		

Introduction

D-amino-acid oxidase or DAAO is an enzyme that oxidizes D-amino acids to their imino acids form while using FAD (flavin adenine dinucleotide) as a co-factor, resulting in the formation of ammonia & hydrogen peroxide. the enzyme may take part in keeping the balance of acid base in the kidney tissue. Another role is to detoxifying molecules that abolish D-amino acids aggregated while the cell ages.

Biological Activity

Specific activity is > 3.5unit/mg, in which one unit will oxidatively deaminate 1.0 umole of D-alanine to pyruvateper minute at pH 8.5 at 37C, in the presence of catalase.

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.

Background

DAAO Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 367 amino acids (1-367) and having a molecular mass of 41.6 kDa. DAAO Human is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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