

32-6725: DAAO Human, Active

Application : Functional Assay

Alternative Name : D-Amino Acid Oxidase 2, D-Amino-Acid Oxidase, EC 1.4.3.3, DAMOX, DAAO, EC 1.4.3, OXDA.

Description

Source: Escherichia Coli.

Sterile Filtered clear solution.

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.

DAAO Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 367 amino acids (1-347) and having a molecular mass of 41.6 kDa. DAAO Humanis fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Product Info

Amount : 2 µg / 10 µg

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

Content : DAAO Human protein (0.5mg/ml) is formulated in 20mM Tris-HCl buffer (pH 8.0), 20% glycerol & 1mM DTT. .

Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks.

Amino Acid : MGSSHHHHHH SSSLVPRGSH MRVVVIGAGV IGLSTALCIH ERYHSV LQPL DIKVYADRFT PLTTTDVAAG LWQPYLSDPN NPQEADWSQQ TFDYLLSHVH SPNAENLGLF LISGYNLFHE AIPDPSWKDT VLGFRKLTPR ELD MFDPDYG Y GWFHTSLILE GKNYLQWLTE RLTERGVKFF QRKVESFEEV AREGADVIVN CTGVWAGALQ RDPLLQPGRG QIMKVDAPWM KHFILTHDPE RGIYNSPYII PGTQTVTLGG IFQLGNWSEL NNIQDHNTIW EGCCRLEPTL KNARIIGERT GFRPVRPQIR LEREQLRTGP SNTEVIHNYG HGGYGLTIHW GCALEAAKLF GRILEEKLS RMPPSHL.

Application Note

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.