

Human ALDH3A1 Recombinant Protein



RPPB1388

Product Information Protein Information

Product SKU:

RPPB1388

Accession:

P30838

Host:

Escherichia Coli.

Protein description:

ALDH3A1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 473 amino acids (1-453 a.a.) and having a molecular mass of 52.5 kDa. ALDH3A1 is fused to a 20 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

Appearance:

Sterile filtered colorless solution.

Synonyms:

Aldehyde dehydrogenase 3 family member A1, aldehyde dehydrogenase, dimeric NADP-preferring, ALDH-3, aldehyde dehydrogenase isozyme, ALDHIII, MGC104062, aldehyde dehydrogenase type III, Aldehyde dehydrogenase, stomach aldehyde dehydrogenase, EC 1.2.1.53, aldehyde dehydrogenase 3A, Aldehyde dehydrogenase.

Formulation:

ALDH3A1 solution containing 20mM Tris-HCl pH-8, 0.1M NaCl and 10% glycerol.

Purity:

Greater than 95% as determined by SDS-PAGE.

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. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Amino Acid Sequence:

MGSSHHHHHH SSGLVPRGSH MSKISEAVKR ARAAFSSGRT RPLQFRIQQL EALQRLIQEQ EQELVGALAA
DLHKNEWNAY YEEVVVLEE IEYMIQKLP E WAADPEVKT PQTQQDELYI HSEPLGVVLLV IGTWNYPFNL
TIQPMVGAIA AGNAVVLKPS ELSENMASLL ATIIPQYLDK DLYPVINGGV PETTELLKER FDHILYTGST
GVGKIIMTAA AKHLTPVTLE LGGKSPCYVD KNCDLDVACR RIAWGFKMNS GQTCVAPDYI LCDPSIQNQI
VEKLLKSLKE FYGEDAKKSR DYGRIISARH FQRVMGLIEG QKVAYGGTGD AATRYIAPTI LTDVDPQSPV
MQEEIFGPVLPVIVCVRSLEE AIQFINQREK PLALYMFSSN DKVIKKMIAE TSSGGVAAND VIVHITLHSL
PFGGVGNSGM GSYHGKKSFE TFSHRRSCLV RPLMNDEGLK VRYPPSPAKM TQH.

Biological Activity:

Specific activity was found to be < 1 units/ml. Activity was obtained by measuring the increase of NADP in absorbance at 340 nm resulting from the reduction of NAD. 1 unit will oxidize 1umole of acetaldehyde to acetic acid per minute at pH 8 at 25°C in the presence of beta-NAD, potassium and thiols.