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ADH5 Human

Catalog #:ENPS-602

For research use only.

Description:ADH5 Recombinant produced in E. coli is a single polypeptide chain containing 398 amino acids (1-374) and having a molecular mass of 42.3kDa.ADH5 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Synonyms: Alcohol dehydrogenase 5 (class III) chi polypeptide, Alcohol dehydrogenase class chi chain, Glutathione-dependent formaldehyde dehydrogenase, S-(hydroxymethyl) glutathione dehydrogenase, FDH, ADHX, ADH-3, FALDH, GSH-FDH, GSNOR, EC 1.1.1.1, EC 1.1.1.284.

Source:E.coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MGSHMANEVI KCKAAVAWEA GKPLSIEEIE VAPPKAHEVR IKIIATAVCH TDAYTLSGAD PEGCFPVILG HEGAGIVESV GEGVTKLKAG DTVIPLYIPQ CGECKFCLNP KTNLCQKIRV TQGKGLMPDG TSRFTCKGKT ILHYMGTSTF SEYTVVADIS VAKIDPLAPL DKVCLLGCGI STGYGAAVNT AKLEPGSVCA VFGLGGVGLA VI

Purity: Greater than 90% as determined by SDS-PAGE.

Formulation:
The ADH5 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl, 1mM DTT and 20% glycerol.

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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
ADH5 belongs to the alcohol dehydrogenase family which metabolizes a large selection of substrates, such as retinol, ethanol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. ADH5 has practically no activity for ethanol oxidation, but displays high activity for oxidation of long-chain primary alcohols and for oxidation of S-hydroxymethyl-glutathione, a spontaneous adduct between glutathione and formaldehyde. ADH5 enzyme is a key factor of cellular metabolism for the removal of formaldehyde, a powerful aggravating and alerting mediator which causes pharyngitis, lacrymation, rhinitis and contact dermatitis.

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