

AKR1C3 Human

Description: AKR1C3 Human Recombinant fused to 20 amino acid His Tag at N-terminal produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 343 amino acids (1-323 a.a.) and having a molecular mass of 39 kDa. The AKR1C3 is purified by proprietary chromatographic techniques.

Catalog #:ENPS-413

For research use only.

Synonyms: DD3, DDX, HAKRB, HAKRe, HA1753, HSD17B5, hluPGFS, KIAA0119, AKR1C3, Aldo-keto reductase family 1 member C3, 3-alpha-HSD type 2, 17-beta-HSD 5, PGFS, DD-3.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MDSKHQCVKL NDGHFMPVLG
FGTYAPPEVP RSKALEVTKL AIEAGFRHID SAHLYNNEEQ VGLAIRSKIA DGSVKREDIF
YTSKLWSTFH RPELVPALE NSLKKAQLDY VDLYLIHSPM SLKPGEELSP TDENGKVID
IVDLCTTWEA MEKCKDAGLA KSGVSNFNR RQLEMILNKPLKYKPCVNQ VECPPYFNRS
KLLDFCKSKD IVL

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

Formulation:

The AKR1C3 solution contains 20mM Tris-HCl pH-8 and 10% glycerol.

Stability:

AKR1C3 Recombinant Human although stable at 4°C for 30 days, should be stored desiccated below -20°C for periods greater than 30 days. Please avoid freeze-thaw cycles.

Usage:

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

Introduction:

AKR1C3 is part of the aldo/keto reductase superfamily, which has at least 40 identified proteins. AKR1C3 catalyzes the conversion of aldehydes and ketones to their corresponding alcohols by utilizing NADH and/or NADPH as cofactors. AKR1C3 displays overlapping but distinct substrate specificity. AKR1C3 catalyzes the reduction of prostaglandin (PG) D₂, PGH₂ and phenanthrenequinone (PQ), and the oxidation of 9alpha,11beta-PGF₂ to PGD₂. AKR1C3 is involved in the pathogenesis of allergic diseases such as asthma. AKR1C3 controls cell growth and/or differentiation. AKR1C3, having ability to convert androstenedione to testosterone, it takes part in adrenal testosterone production. AKR1C3 expression is affected by metabolic disease, and its levels are considerably reduced in response to diet-induced weight loss and correlate with leptin levels.

Biological Activity:

Specific activity: approximately
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