Recombinant human DCXR protein

Catalog Number: ATGP0618

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-244aa

UniProt No.
Q7Z4W1

NCBI Accession No.
NP_057370

Alternative Names
Carbonyl reductase II, DCR, Dicarbonyl/L-xylulose reductase, HCR 2, HCR II, KIDCR, Kidney dicarbonyl reductase, L-xylulose reductase, P34H, Sperm surface protein P34H, XR

PRODUCT SPECIFICATION

Molecular Weight
28 kDa (264aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 50mM NaCl

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Dicarbonyl/L-xylulose reductase, also known as DCXR, is an enzyme responsible for the metabolism of xylulose, converting it into xylitol. DCXR was expressed at low levels and was localized predominantly in the cytoplasmic membrane. In contrast, in virtually all grades of early-stage prostate cancer and in all chemohormonally treated cases, DCXR was strikingly overexpressed and was localized predominantly in the cytoplasm and nucleus. Recombinant human DCXR, fused to His-tag at N-terminus, was expressed in E. coli and purified by using

conventional chromatography techniques

Amino acid Sequence

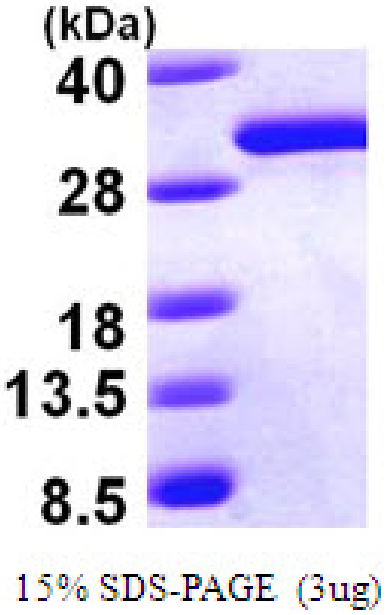
MGSSHHHHHH SSGLVPRGSH MELFLAGRRV LVTGAGKGIG RGTVQALHAT GARVVAVSRT QADLDSLVRE CPGIEPVCVD LGDWEATERA LGSVGPVDLL VNNAAVALLQ PFLEVTKEAF DRSFEVNLRA VIQVSQIVAR GLIARGVPGA IVNVSSQCSQ RAVTNHSVYC STKGALDMLT KVMALELGPH KIRVNAVNPT VVMTSMGQAT WSDPHKAKTM LNRIPLGKFA EVEHVVNAIL FLLSDRSGMT TGSTLPVEGG FWAC

General References

Cho Veqa JH., et al. (2007) Cancer Epidemiol Biomakers Prev. 16(12):2615-22.
Nakaqawa J., et al. (2002) J Biol Chem. 277(20):17883-91.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.