

## AR09555PU-L

## Human L-xylulose reductase (1-244, His-tag) - Purified

### Alternate names:

Carbonyl reductase II, DCXR, Dicarboxyl/L-xylulose reductase, Kidney dicarbonyl reductase, P34H, Sperm surface protein P34H, XR

### Quantity:

0.5 mg

### Concentration:

0.5 mg/ml (determined by Bradford assay)

### Background:

Dicarboxyl/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.

### Uniprot ID:

[Q7Z4W1](#)

### NCBI:

[NP\\_057370](#)

### GeneID:

[51181](#)

### Species:

Human

### Source:

E. coli

### Format:

**State:** Liquid purified protein

**Purity:** >95% by SDS - PAGE

**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 20% glycerol, 50 mM NaCl

### Description:

Recombinant human DCXR, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

#### AA Sequence:

MGSSHHHHH SSGLVPRGSH MELFLAGRRV LVTGAGKGIG RGTVQALHAT GARVVAVSRT  
QADLDLVRE CPGIEPVCVD LGDWEATERA LGSVGPVDLL VNNAAVALLQ PFLEVTKEAF  
DRSFEVNLRA VIQVSQIVAR GLIARGVPGA IVNVSSQCSQ RAVTNHSVYC STKGALDMLT  
KVMALDELPH KIRVNAVNP VVMTSMGQAT WSDPHKAKTM LNRIPLGKFA EVEHVVNAIL  
FLLSDRSGMT TGSTLPVEGG FWAC

**Molecular weight:** kDa (264aa), confirmed by MALDI-TOF

### Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

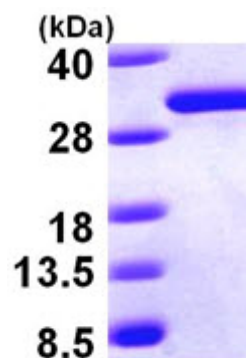
Shelf life: one year from despatch.

### General Readings:

Cho Veqa JH., et al. (2007) Cancer Epidemiol Biomarkers Prev. 16(12):2615-22.

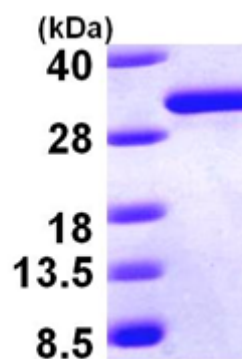
Nakaqawa J., et al. (2002) J Biol Chem. 277(20):17883-91.

**Pictures:**



15% SDS-PAGE (3ug)

Recombinant human DCXR, 1- 244 aa, His-tagged



15% SDS-PAGE (3ug)