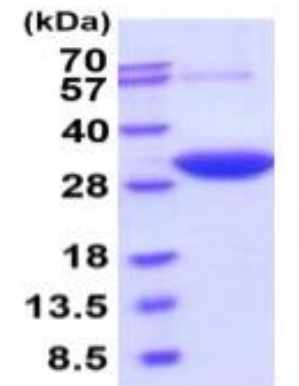


DCXR, human recombinant

CATALOG NO:	P1155-10 10 µg P1155-50 50 µg
ALTERNATE NAMES:	Dicarbonyl/L-xylulose reductase, DCR, HCR2, HCRII, KIDCR, P34H
CONCENTRATION:	0.5 mg/ml (determined by Bradford assay)
SOURCE:	<i>E.coli</i> (1-244aa)
PURITY:	> 95% by SDS-PAGE
MOL. WEIGHT:	This protein is fused with 6x His tag at N terminus and the protein has a calculated MW of 28 kDa (264aa), confirmed by MALDI-TOF
FORM:	Liquid
FORMULATION:	In 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 20% glycerol, 50 mM NaCl
STORAGE CONDITIONS:	Store at +4°C for short term (1-2 weeks). For long term storage, aliquot and store at -70°C. Avoid repeated freeze/thaw cycles.
SEQUENCE:	MGSSHHHHHH SSGLVPRGSH MELFLAGRRV LVTGAGKGIG RGTVQALHAT GARVVAVSRT QADLDSLVRE CPGIEPVCVD LGDWEATERA LGSVGPVDLL VNNAAVALLQ PFLEVTKEAF DRSFEVNLRA VIQVSQIVAR GLIARGVPGA IVNVSSQCSQ RAVTNHSVYC STKGALDMLT KVMALELGPH KIRVNAVNP VVMTSMGQAT WSDPHKAKTM LNRIPLGKFA EVEHVVNAIL FLLSDRSGMT TGSTLPVEGG FWAC
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 <i>E.coli</i> and purified by using conventional chromatography techniques.
BIOLOGICAL ACTIVITY:	Specific activity is > 1,800 pmol/min/ug and is defined as the amount of enzyme that oxidize 1 pmole of xylitol to L-xylulose per minute at pH 10.0 at 37C.



15% SDS-PAGE (3µg)

Human recombinant DCXR

RELATED PRODUCT:

- PKD2, Active (Cat. No. 7711-5)
- PAK4, Active (Cat. No. 7707-5)
- Human Recombinant ALDH2 (Cat. No. 6322-100)
- Human Recombinant PKM2 (Cat. No. 6372-100)
- Phosphogluconate dehydrogenase, human recombinant (Cat. No. P1051-50)

FOR RESEARCH USE ONLY! Not to be used on humans.