Active Recombinant Human DCXR protein, His-tagged

Cat. No. DCXR-128H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DCXR(1-244aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-244 a.a.
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 50mM NaCl
Bio-activity	Specific activity is > 1,800 pmol/min/ug and is defined as the amount of enzyme that oxidize 1pmole of xylitol to L-xylulose per minute at pH 10.0 at 37°C.
Molecular Mass	28 kDa (264aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MELFLAGRRV LVTGAGKGIG RGTVQALHAT

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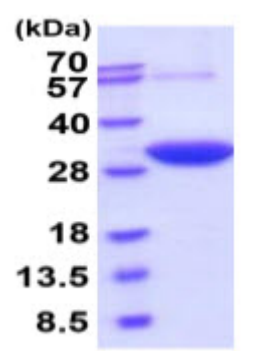
	GARVVAVSRT QADLDSLVRE CPGIEPVCVD LGDWEATERA LGSVGPVDLL VNNAAVALLQ PFLEVTKEAF DRSFEVNLRA VIQVSQIVAR GLIARGVPGA IVNVSSQCSQ RAVTNHSVYC STKGALDMLT KVMALELGPH KIRVNAVNPT VVMTSMGQAT WSDPHKAKTM LNRIPLGKFA EVEHVVNAIL FLLSDRSGMT TGSTLPVEGG FWAC
Purity	> 95% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	DCXR dicarbonyl/L-xylulose reductase [Homo sapiens]
Official Symbol	DCXR
Synonyms	DCXR; dicarbonyl/L-xylulose reductase; L-xylulose reductase; DCR; KIDCR; SDR20C1; short chain dehydrogenase/reductase family 20C; member 1; carbonyl reductase 2; carbonyl reductase II; sperm surface protein P34H; kidney dicarbonyl reductase; short chain dehydrogenase/reductase family 20C, member 1; XR; HCR2; P34H; HCRII;
Gene ID	51181
mRNA Refseq	NM_016286

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Protein Refseq	NP_057370
MIM	608347
UniProt ID	Q7Z4W1
Chromosome Location	17q25.3
Pathway	D-glucuronate degradation I, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Pentose and glucuronate interconversions, organism-specific biosystem; Pentose and glucuronate interconversions, conserved biosystem;
Function	L-xylulose reductase (NADP+) activity; nucleotide binding; oxidoreductase activity, acting on CH-OH group of donors; oxidoreductase activity, acting on NADH or NADPH, quinone or similar compound as acceptor;



15% SDS-PAGE (3ug)

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