Recombinant Human Dicarbonyl/L-xylulose Reductase, His-tagged

Cat. No. DCXR-2726H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human DCXR, fused to His-tag at N-terminus, was expressed in*E.coli*and purified by using conventional chromatography techniques. MW =28 kDa (264aa), confirmed by MALDI-TOF.
Species	Human
Source	E.coli
Description	Dicarbonyl/L-xylulose reductase, also known as DCXR, is an enzyme responsible for t he metabolism ofxylulose, 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, D CXR was strikingly overexpressed and was localized predominantly in the cytoplasm and nucleus.
Sequences Of Amino Acids	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
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 20% glycerol, 50mM

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	NaCl.
Purity	> 95% by SDS – PAGE.
Concentration	0.5mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	DCXR dicarbonyl/L-xylulose reductase [Homo sapiens]
Synonyms	DCXR; dicarbonyl/L-xylulose reductase; DCR; HCR2; P34H; HCRII; KIDCR; SDR20C1; L-xylulose reductase; XR; carbonyl reductase II; human carbonyl reductase 2; sperm surface protein P34H; kidney dicarbonyl reductase; short chain dehydrogenase/reductase family 20C, member 1; EC 1.1.1.10
Gene ID	51181
mRNA Refseq	NM_016286
Protein Refseq	NP_057370
MIM	608347
UniProt ID	Q7Z4W1
Chromosome Location	17q25.3

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Pathway	Metabolic pathways; Pentose and glucuronate interconversions
Function	L-xylulose reductase (NADP+) activity; binding; oxidoreductase activity, acting on CH-OH group of donors

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