

Recombinant Human DCXR, GST-tagged

Cat. No. DCXR-11874H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DCXR protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-244a.a.
Description	The protein encoded by this gene acts as a homotetramer to catalyze diacetyl reductase and L-xylulose reductase reactions. The encoded protein may play a role in the uronate cycle of glucose metabolism and in the cellular osmoregulation in the proximal renal tubules. Defects in this gene are a cause of pentosuria. Two transcript variants encoding different isoforms have been found for this gene.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

Gene Name	DCXR dicarbonyl/L-xylulose reductase [Homo sapiens]
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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_001195218
Protein Refseq	NP_001182147
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;