

Product datasheet for **TP300023L**

DCXR (NM_016286) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human dicarbonyl/L-xylulose reductase (DCXR), 1 mg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone
or AA Sequence: >RC200023 protein sequence
Red=Cloning site **Green**=Tags(s)

MELFLAGRRVLVTGAGKGI GRGTVQALHATGARWAVSRTQADLDSL VRECPGIEPVCVDLGDWEATERA
LGSVGPVDLLVNNAAVALLQPFLEVTKEAFDRSFEVNLRAVIQVSQIVARGLIARGVPGAIVNVSSQCSQ
RAVTNHSVYCSTKGALDMLTKVMALELGPHKIRVNAVNPVVM TSMGQATWSDPHKAKTMLNRIPLGKFA
EVEHVVNAILFLLSDRSGMTTGSTLPVEGGFWAC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 25.7 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_057370](#)

Locus ID: 51181

UniProt ID: [Q7Z4W1](#), [A0A384NY14](#)



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RefSeq Size: 860

Cytogenetics: 17q25.3

RefSeq ORF: 732

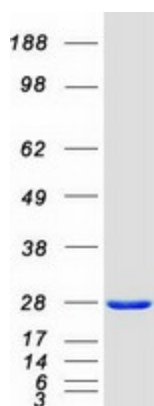
Synonyms: DCR; HCR2; HCR2I; KIDCR; P34H; PNTSU; SDR20C1; XR

Summary: 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.[provided by RefSeq, Aug 2010]

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Pentose and glucuronate interconversions

Product images:



Coomassie blue staining of purified DCXR protein (Cat# [TP300023]). The protein was produced from HEK293T cells transfected with DCXR cDNA clone (Cat# [RC200023]) using MegaTran 2.0 (Cat# [TT210002]).