

## Product datasheet for **TP300023M**

### DCXR (NM\_016286) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human dicarbonyl/L-xylulose reductase (DCXR), 100 µg

**Species:** Human

**Expression Host:** HEK293T

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

MELFLAGRRVLVTGAGKGI GRGTVQALHATGARWAVSRTQADLDSL VRECPGIEPVCVDLGDWEATERA  
LGSVGPVDLLVNNAAVALLQPFLEVTKEAFDRSFEVNLRAVIQVSQIVARGLIARGVPGAI VNVSSQCSQ  
RAVTNHSVYCSTKGALDMLTKVMALELGPHKIRVNAVNPVVM TSMGQATWSDPHKAKTMLNRIPLGKFA  
EVEHVVNAILFLLSDRSGMTTGSTLPVEGGFWAC

**TR**TRPLE**Q**KLISEEDLA**AND**ILDYK**DDDD**DKV

**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

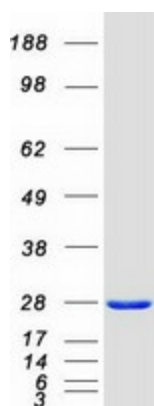
Synonyms: DCR; HCR2; HCR11; KIDCR; P34H; PNTSU; SDR20C1; XR

**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]).