

## 32-2259: DCXR Recombinant Protein

**Alternative Name :** DCR,HCR2,HCR11,KIDCR,P34H,SDR20C1,Dicarbonyl/L-Xylulose Reductase,EC=1.1.1.10,Carbonyl reductase II,Kidney dicarbonyl reductase,Sperm surface protein P34H.

### Description

Source : Escherichia Coli. DCXR Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 264 amino acids (1-244 a.a.) and having a molecular mass of 28 kDa. The DCXR is fused to 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques. DCXR catalyzes the NADPH-dependent reduction of numerous pentoses, tetroses, trioses, alpha-dicarbonyl molecules and L-xylulose. DCXR takes part in the uronate cycle of glucose metabolism. DCXR participates in the water absorption and cellular osmoregulation in the proximal renal tubules by producing xylitol, an osmolyte, thus preventing osmolytic stress from occurring in the renal tubules.

### Product Info

**Amount :** 20 µg  
**Purification :** Greater than 95.0% as determined by SDS-PAGE.  
**Content :** DCXR Human solution containing 20mM Tris-HCl pH-8, 1mM DTT, 50mM NaCl & 20% glycerol.  
**Storage condition :** DCXR Human although stable at 4°C for 1 week, should be stored desiccated below -18°C. Please prevent freeze thaw cycles.  
**Amino Acid :** MGSSHHHHHH SSSLVPRGSH MELFLAGRRV LVTGAGKGIG RGTVQALHAT GARVVAVSRT  
QADLDSLVR CPGIEPVCVD LGDWEATERA LGSVGPVDLL VNNAAVALLQ PFLEVTKEAF DRSFEVNLRA  
VIQVSQIVAR GLIARGVPGA IVNVSSQCSQ RAVTNHSVYC STKGALDMLT KVMALELGPH KIRVNAVNP  
VVMTSMGQAT WSDPHKAKTM LNRIPLGKFA EVEHVVNAIL FLLSDRSGMT TGSTLPVEGG FWAC.

