

Recombinant Human XDH Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. XDH-4041H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	XDH MS Standard C13 and N15-labeled recombinant protein (NP_000370) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Xanthine dehydrogenase belongs to the group of molybdenum-containing hydroxylases involved in the oxidative metabolism of purines. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. Xanthine dehydrogenase can be converted to xanthine oxidase by reversible sulfhydryl oxidation or by irreversible proteolytic modification. Defects in xanthine dehydrogenase cause xanthinuria, may contribute to adult respiratory stress syndrome, and may potentiate influenza infection through an oxygen metabolite-dependent mechanism.
Molecular Mass	146.2 kDa
AA Sequence	MTADKLVFFVNGRKVVEKNADPETTLLAYLRRKLGLSGTKLGC GEGGCGACTVMLS KYDRLQNKIVHFSANACLAPICSLHHVAVTTVEGIGSTKTRLHPVQERIAKSHGSQCG FCTPGIVMSMYTLLRNQPEPTMEEIENAFQGNLCRCTGYRPILQGFRTFARDGGCC GGDGNNPNCCMNQKKDHSVLSPSLFKPEEFTPLDPTQEPIFPPELLRLKDTPRKQ LRFEGERV TWIQASTLKELDLKAQHPDAKL VVG NTEIGIEMKFKNMLFPMIVCPAWI

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

PELNSVEHGPDGISFGAACPLSIVEKTLVDAVAKLPAQKTEVFRGVLEQLRWFAGKQ
 VKSVASVGGNIITASPIDLNPVFMASGAKLTLVSRGTRRTVQMDHTFFPGYRKTLTS
 PEEILLSIEIPYSREGEYFSAFKQASRREDDIAKVTSGMRVLFKPGTTEVQELALCYG
 GMANRTISALKTTQRQLSKLWKEELLQDVCAGLAEELHLPDAPGGMVDFRCTLTL
 SFFFFKYLTVLQKLGQENLEDKCGKLDPTFASATLLFQKDPPADVQLFQEVPKGQSE
 EDMVGRPLPHLAADMQASGEAVYCDDIPRYENELSLRLVTSTRAHAKIKSIDTSEAK
 KVPGFVCFISADDVPGSNITGICNDET VFAKDKVTCVGHII GAVVADTPEHTQRAAQG
 VKITYEELPAITIEDAIKNNSFYGP ELKIEKGD LKKGFSEADNVVSGEIYIGGQEHFYLE
 THCTIAVPKGEAGEMELFVSTQNTMKTQSFVAKMLGVPANRIVVRVKRMGGGGFGG
 KETRSTVVSTAVALAAYKTGRPVRCMLDRDEDMLITGGRHPFLARYKVGFMKTGTV
 VALEVDHFSNVGNTQDLSQSIMERALFHMDNCYKIPNIRGTGRLCKTNLPSNTAFRG
 FGGPQGM LIAECWMSEVAVTCGMPAEEVRRKNLYKEGDLTHFNQKLEGFTLPRCW
 EECLASSQYHARKSEVDKFNKENCWKKRGLCIPTKFGISFTVPFLNQAGALLHVYT
 DGSVLLTHGGTEMGQGLHTKMVQVASRALKIPTSKIYISETSTNTVPNTSPTAASVSA
 DLNGQAVYAAACQTILKRLEPYKKKNPSGSWEDWVTAAYMDTVSLSATGFYRTPNLG
 YSFETNSGNPFHYFSYGVACSEVEIDCLTGDHKNLRTDIVMDVGSSLNPAIDIGQVE
 GAFVQGLGLFTLEELHYSPEGSLHTRGPSTYKIPAFGSIPIEFRVSLLRDCPNKKAIYA
 SKAVGEPPLFLAASIFFAIKDAIRAARAQHTGNNVKELFRLDSPATPEKIRNACVDKFT
 TLCVTGVPENCKPWSVRVTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

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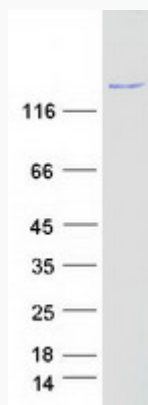
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GENE INFORMATION

Gene Name	XDH xanthine dehydrogenase [Homo sapiens (human)]
Official Symbol	XDH
Synonyms	XDH; xanthine dehydrogenase; xanthene dehydrogenase; xanthine dehydrogenase/oxidase; XO; XOR; xanthine oxidase; xanthine oxidoreductase;
Gene ID	7498
mRNA Refseq	NM_000379
Protein Refseq	NP_000370
MIM	607633
UniProt ID	P47989

SDS-PAGE



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