



# Recombinant Human Homogentisate 1,2-dioxygenase (HGD)

<b>Product Code</b>	CSB-EP842354HU-B
<b>Abbreviation</b>	HGD
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q93099
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MAELKYISGF GNECSSEDPR CPGSLPEGQN NPQVCPYNLY AEQLSGSAFT CPRSTNKRSW LYRILPSVSH KPFESIDEGQ VTHNWDEVDP DPNQLRWKPF EIPKASQKKV DFVSGLHTLC GAGDIKSNG LAIHIFLCNT SMENRCFYNS DGDFLIVPQK GNLLIYTEFG KMLVQPNEIC VIQRGMRFSI DVFEETRGYI LEVYGVHFEI PDLGPIGANG LANPRDFLIP IAWYEDRQVP GGYTVINKYQ GKLF AAKQDV SPFN VVAWHG NYTPYKYNLK NFMVINSVAF DHADPSIFTV LTAKSVRPGV AIAD FVIFPP RWGVADKTFR PPYYHRNCMS EFMGLIRGHY EAKQGGFLPG GGSLHSTMT P HGPDADCFEK ASKVKLAPER IADGTMAFMF ESSLSLAVTK WGLKASRCLD ENYHKCWEPL KSHFTPNSRN PAEPN
<b>Source</b>	E.coli
<b>Target Names</b>	HGD
<b>Protein Names</b>	Recommended name: Homogentisate 1,2-dioxygenase EC= 1.13.11.5 Alternative name(s): Homogentisate oxygenase Homogentisic acid oxidase Homogentisicase
<b>Expression Region</b>	1-445
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	Homogentisate 1,2-dioxygenase (HGD) gene mutations are the molecular cause of alkaptonuria, a rare hereditary disorder of the phenylalanine catabolism. The highest expression of HGD is in the prostate, small intestine, colon, and liver. The HGD gene contains 14 exons. Conflicting reports have placed the gene at 3q2, 3q13.3-q21, 3q21-q24, 3q21-q23, or 3q25-q26.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final



concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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