



Recombinant Human Homogentisate 1,2-dioxygenase (HGD)

Product Code	CSB-MP842354HU
Abbreviation	HGD
Storage	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.
Uniprot No.	Q93099
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MAELKYISGF GNECSSEDPR CPGSLPEGQN NPQVCPYNLY AEQLSGSAFT CPRSTNKRSW LYRILPSVSH KPFESIDEGQ VTHNWDEVDP DPNQLRWKPF EIPKASQKKV DFVSGLHTLC GAGDIKSNG LAIHIFLCNT SMENRCFYNS DGDFLIVPQK GNLLIYTEFG KMLVQPNEIC VIQRGMRFSI DVFEETRGYI LEVYGVHFEF PDLGPIGANG LANPRDFLIP IAWYEDRQVP GGYTVINKYQ GKLFAAKQDV SPFNVAWHG NYTPYKYNLK NFMVINSVAF DHADPSIFTV LTAKSVRPGV AIADFVIFPP RWGVADKTFR PPYYHRNCMS EFMGLIRGHY EAKQGGFLPG GGSLHSTMTTP HGPDADCFEK ASKVKLAPER IADGTMAFMF ESSLSLAVTK WGLKASRCLD ENYHKCWEPL KSHFTPNSRN PAEPN
Source	Mammalian cell
Target Names	HGD
Protein Names	Recommended name: Homogentisate 1,2-dioxygenase EC= 1.13.11.5Alternative name(s): Homogentisate oxygenase Homogentisic acid oxidase Homogentisicase
Expression Region	1-445
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	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.
Reconstitution	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.

Shelf Life

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