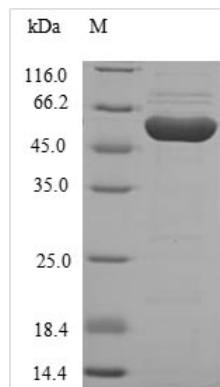




Recombinant Human Homogentisate 1,2-dioxygenase (HGD)

Product Code	CSB-EP842354HU
Abbreviation	Recombinant Human HGD protein
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	Greater than 85% as determined by SDS-PAGE.
Sequence	MAELKYISGFGNECSSDPRCPGSLPEGQNNPQVCPYNLYAEQLSGSAFTCP RSTNKRSWLYRILPSVSHKPFESIDEGQVTHNWDEVDPDPNQLRWKPFEPKA SQKKVDFVSGLHTLCGAGDIKSNNGLAIHIFLCNTSMENRCFYNSDGDFLIVPQ KGNLLIYTEFGKMLVQPNEICVIQRGMRFSIDVFEETRGIYILEVYGVHFEPLDLG PIGANLANPRDFLIPIAWYEDRQVPGGYTVINKYQGKLFQAKQDVSPFNVA WHGNYTPYKYNLKNFMVINSVAFDHADPSIFTVLTAKSVRPGVAIADFVIFPPR WGVADKTRPPYYHRNCMSEFMGLIRGHYEAKQGGFLPGGSLHSTMTPHG PDADCFEKASKVKLAPERIADGTMAFMFESSLSLAVTKWGLKASRCLDENYHK CWEPLKSHFTPNRNPAEPN
Research Area	Metabolism
Source	E.coli
Target Names	HGD
Protein Names	Homogentisate oxygenase Homogentisic acid oxidase Homogentisicase
Expression Region	1-445aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	54.0 kDa
Protein Length	Full Length
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Dive into the realm of metabolic research with our Recombinant Human HGD protein, a crucial enzyme in the catabolism of phenylalanine and tyrosine. As homogentisate 1,2-dioxygenase, it catalyzes the conversion of homogentisate to maleylacetoacetate, playing a key role in the degradation of aromatic amino acids. Deficiency or mutations in HGD can lead to the development of alkaptonuria, a rare metabolic disorder.

Produced in *E. coli* expression systems, our Recombinant Human HGD encompasses the full-length protein (1-445 amino acids) and comes with an N-terminal 6xHis-tag, enabling efficient purification and detection. With a purity greater than 85% as confirmed by SDS-PAGE, this high-quality protein ensures accurate and reproducible results in your experiments. Available in both liquid and lyophilized powder forms, our Recombinant Human HGD protein is adaptable to your specific research needs.

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

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.