



# Recombinant Human GDH/6PGL endoplasmic bifunctional protein (H6PD)

<b>Product Code</b>	CSB-EP010111HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	O95479
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>Q ELQGHVSIIL LGATGDLAKK YLWQGLFQLY LDEAGRGHSF SFHGAALTAP            KQGQELMAKA LESLSCPDKM APSHCAEHKD QFLQLSQYRQ LKTAEDYQAL            NKDIEAQLQH AGLREAGRIF YFSVPPFAYE DIARNINSSC RPGPGAWLRV            VLEKPFQHDH FSAQQLATEL GTFFQEEEMY RVDHYLGKQA VAQILPFRDQ            NRKALDGLWN RHHVERVEII MKETVDAEGR TSFYEEYGVI RDVLQNHLTE            VLTLVAMELP HNVSSAEAVL RHKLQVFQAL RGLQRGSAVV GQYQSYSEQV            RRELQKPDSF HSLTPTFAAV LVHIDNLRWE GVPFILMSGK ALDERVGYAR            ILFKNQACCV QSEKHAAAAQ SQCLPRQLVF HIGHGDLGSP AVLVSRNLFR            PSLPSSWKEM EGPPGLRLFG SPLSDYYAYS PVRERDAHSV LLSHIFHGRK            NFFITTENLL ASWNFWTPLL ESLAHKAPRL YPGGAENGR LDFEFSSGRL            FFSQQQPEQL VPGPGPAPMP SDFQVLRKY RESPLVSAWS EELISKLAND            IEATAVRAVR RFGQFHLALS GGSSPVALFQ QLATAHYGFP WAHTHLWLVD            ERCVPLSDPE SNFQGLQAH LQHVRIPYYN IHPMPVHLQQ RLCAEEDQGA            QIYAREISAL VANSSFDLVL LGMGADGHTA SLFPQSPTGL DGEQLVLT            SPSQPHRRMS LSLPLINRAK KVAVLVMGRM KREITTLVSR VGHEPKKWPI            SGVLP HSGQL VWYMDYDAFL G</p>
<b>Source</b>	E.coli
<b>Target Names</b>	H6PD
<b>Protein Names</b>	<p>Recommended name: GDH/6PGL endoplasmic bifunctional protein Including the following 2 domains: Glucose 1-dehydrogenase EC= 1.1.1.47 Alternative name(s): Hexose-6-phosphate dehydrogenase 6-phosphogluconolactonase Short name=</p>
<b>Expression Region</b>	20-791
<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 of Mature Protein
<b>Target Details</b>	There are 2 forms of glucose-6-phosphate dehydrogenase. G form is X-linked and H form, encoded by this gene, is autosomally linked. This H form shows activity with other hexose-6-phosphates, especially galactose-6-phosphate, whereas the G form is specific for glucose-6-phosphate. Both forms are present



in most tissues, but H form is not found in red cells.

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**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.

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**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.