



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

Product Code	CSB-BP010111HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O95479
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	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 EGPPGLRFLG SPLSDYYAYS PVRERDAHSV LLSHIFHGRK NFFITTENLL ASWNFWTPLL ESLAHKAPRL YPGGAENGR LDFEFSSGRL FFSQQQPEQL VPGPGPAPMP SDFQVLRKY RESPLVSAWS EELISKLAND IEATAVRAVR RFGQFHLALS GGSSPVALFQ QLATAHYGFP WAHTHLWLVD ERCVPLSDPE SNFQGLQAHL LQHVRIPYYN IHPMPVHLQQ RLCAEEDQGA QIYAREISAL VANSSFDLVL LGMGADGHTA SLFPQSPTGL DGEQLVLT T SPSQPHRRMS LSLPLINRAK KVAVLVMGRM KREITTLVSR VGHEPKKWPI SGVLP HSGQL VWYMDYDAFL G
Source	Baculovirus
Target Names	H6PD
Protein Names	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=
Expression Region	20-791
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 of Mature Protein
Target Details	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.

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.