

Recombinant Human H6PD, His-tagged

Cat. No. H6PD-13652H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human H6PD protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	443-791a.a.
Description	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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name	H6PD hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) [Homo sapiens]
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Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

Official Symbol	H6PD
Synonyms	H6PD; hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase); GDH, glucose dehydrogenase; GDH/6PGL endoplasmic bifunctional protein; G6PD, H form; glucose dehydrogenase; glucose dehydrogenase; glucose 1- dehydrogenase; 6-phosphogluconolactonase; glucose-6-phosphate dehydrogenase, salivary; GDH; G6PDH; MGC87643; DKFZp686A01246;
Gene ID	9563
mRNA Refseq	NM_004285
Protein Refseq	NP_004276
MIM	138090
UniProt ID	O95479
Chromosome Location	1p36
Pathway	Metabolic pathways, organism-specific biosystem; Pentose phosphate pathway, organism-specific biosystem; Pentose phosphate pathway, conserved biosystem; Pentose phosphate pathway (Pentose phosphate cycle), organism-specific biosystem; Pentose phosphate pathway (Pentose phosphate cycle), conserved biosystem; Pentose phosphate pathway, oxidative phase, glucose 6P => ribulose 5P, organism-specific biosystem;
Function	6-phosphogluconolactonase activity; NADP binding; glucose 1-dehydrogenase [NAD(P)] activity; glucose-6-phosphate dehydrogenase activity; hydrolase activity; oxidoreductase activity; sugar binding;

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