

Recombinant Human H6PD 293 Cell Lysate

Cat. No. H6PD-5651HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) (H6PD) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	H6PD hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) [Homo sapiens]
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,

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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;