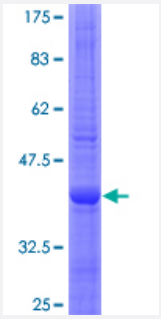
H6PD (Human) Recombinant Protein (Q01)

Catalog # H00009563-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human H6PD partial ORF (NP_004276, 401 a.a. - 500 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	HIGHGDLGSPAVLVSRNLFRPSLPSSWKEMEGPPGLRLFGSPLSDYYAYSPVRERDAHSVLLSHI FHGRKNFFITTENLLASWNFWTPLLESLAHKAPRL
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (83); Rat (82)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — H6PD

Entrez GeneID	9563
GeneBank Accession#	NM_004285
Protein Accession#	NP_004276
Gene Name	H6PD
Gene Alias	DKFZp686A01246, G6PDH, GDH, MGC87643
Gene Description	hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase)
Omim ID	138090 604931
Gene Ontology	Hyperlink
Gene Summary	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. [provided by RefSeq
Other Designations	6-phosphogluconolactonase|G6PD, H form|GDH/6PGL endoplasmic bifunctional protein|OTTHUMP00000001703|glucose 1- dehydrogenase|glucose dehydrogenase|glucose dehyrogenase|glucose-6-phosphate dehydrogenase, salivary|hexose-6-phosphate dehydrogenase

Pathway

- Biosynthesis of alkaloids derived from histidine and purine
- Biosynthesis of plant hormones
- Metabolic pathways

- Pentose phosphate pathway

Disease

- Dementia
- Genetic Predisposition to Disease
- Multiple Sclerosis
- Polycystic Ovary Syndrome