Active Recombinant E.coli zwf protein

Cat. No. zwf-001E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant E.coli G7PD (1-491aa) protein without tag was expressed in E. coli.
Species	E.coli
Source	E.coli
ProteinLength	1-491
Description	Residues 199-203 of zwf encode a NNWDN peptide involved in ChpA(MazF) toxicity that is likely converted to NNWNN by AsnA; a zwf deletion prevents NNWNN activity (Kolodkin-Gal, 2007). [More information is available at EcoGene: EG11221]. A null mutation in the zwf gene encoding glucose 6-phosphate-1-dehydrogenase does not affect the growth rate significantly.
Form	Liquid
Bio-activity	Specific activity is >50 unit/mg obtained by measuring the increase of beta-NADPH in absorbance at 340 nm resulting from the reduction of beta-NADP. One unit oxidizes 1.0 umole D-glucose-6-phosphate to 6-phospho-D-gluconate per min in the presence of beta-NADP at pH 7.4 at 25 centigrade.
Molecular Mass	55.7 kDa
AA Sequence	MAVTQTAQACDLVIFGAKGDLARRKLLPSLYQLEKAGQLNPDTRIIGVGRADWDKAA YTKVVREALETFMKETIDEGLWDTLSARLDFCNLDVNDTAAFSRLGAMLDQKNRITIN

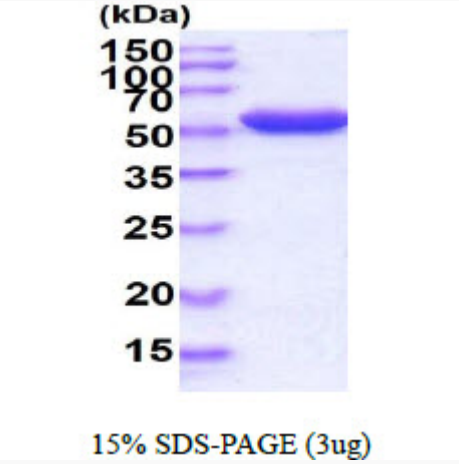
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	YFAMPPSTFGAICKGLGEAKLNAKPARVVMEKPLGTSLATSQEINDQVGEYFEECQV YRIDHYLGKETVLNLLALRFANSLFVNNWDNRTIDHVEITVAEEVGIEGRWGYFDKA GQMRDMIQNHLLQILCMIAMSPPSDLSADSIRDEKVKVLKSLRRIDRSNVREKTVRG QYTAGFAQGKKVPGYLEEEGANKSSNTETFVAIRVDIDNWRWAGVPFYLRTGKRLP TKCSEVVVYFKTPELNLFKESWQDLPQNKLTIRLQPDEGVDIQVLNKVPGLDHKHNL QITKLDLSYSETFNQTHLADAYERLLLETMRGIQALFVRRDEVEEAWKWVDSITEAW AMDNDAPKPYQAGTWGPVASVAMITRDGRSWNEFE
Purity	>95% by SDS-PAGE
Applications	Enzyme Activity, SDS-PAGE
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/mL (determined by Bradford assay)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 0.1mM PMSF, 2mM EDTA, 0.5mM DTT

GENE INFORMATION

Gene Name	zwf NADP(+)-dependent glucose-6-phosphate dehydrogenase [Escherichia coli str. K-12 substr. MG1655]
Official Symbol	zwf
Synonyms	zwf; NADP(+)-dependent glucose-6-phosphate dehydrogenase; ECK1853; NADP(+)-dependent glucose-6-phosphate dehydrogenase; EC 1.1.1.49
Gene ID	946370

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Protein Refseq	NP_416366
UniProt ID	P0AC53
SDS-PAGE	 15% SDS-PAGE (3ug) 3 μg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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