

GOR, 1-450 aa, E.coli, His tag, E.coli

Cat.NO.: TP02304

3th Edition

Synonyms: Glutathione oxidoreductase, ECK3485, gorA, JW3467.

Description: gor, also known as Glutathione reductase, belongs to the class-I pyridine nucleotide disulfide oxidoreductase family. The main function of the protein is to maintain high levels of reduced glutathione in the cytosol. With the concomitant oxidation of NADPH, Glutathione reductase transforms oxidized glutathione to the reduced form. The active site of the protein is a redox-active disulfide bond. Recombinant E. coli gor protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.1M NaCl, 1mM DTT

Molecular Weight: 51.2 kDa(473aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSM TKHYDYIAIGGGSGGIASINRAAMYGQKCALIEAKELGGTCVNVGCVPKKV
MWHAAQIREAIHMYGPDYGFDTTINKFNWETLIASRTAYIDRIHTSYENVLGKNNVDVIKGFARFVDAKTLEVNGETI
TADHILIATGGRPSHPDIPGVEYGIDSDGFFALPALPERVAVVGAGYIAVELAGVINGLGAKTHLFVRKHAPLRSFDP
MISETLVEVMNAEGPQLHTNAIPKAVVKNTDGS LTLELEDGRSETVDCLIWAIGREPANDNINLEAAGVKTNEKGYIV
VDKYQNTNIEGIYAVGDNTGAVELTPVAVAAGRRLSERLFNNKPDEHLDYSNIPTVVFSHPPIGTVGLTEPQAREQY
GDDQVKVYKSSFTAMYTAVTTHRQPCRMKLVCVGSEEKIVGIHGIGFGMDEMLQGFAVALKMGATKKDFDNTVAIH
PTAAEEFVTMR

Purity: > 95% by HPLC

Concentration: 1.0 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.