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DATA SHEET

Glutathione Oxidoreductase E.Coli Recombinant

Item Number	rAP-1801
Synonyms	Glutathione reductase, GR, GRase, gor, b3500, JW3467.
Description	GOR E.Coli Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 473 amino acids (1-450) and having a molecular mass of 51.2kDa.GOR is fused to a 23 amino acid His-tag at N -terminus & purified by proprietary chromatographic techniques.
Uniprot Accesion Number	P06715
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMTKHYDY IAIGGGSGGI ASINRAAMYG QKCALIEAKE LGGTCVNVGC VPKKVMWHAA QIREAIHMYG PDYGFDTTIN KFNWETLIAS RTAYIDRIHT SYEN-VLGKNN VDVIKGFARF VDAKTLEVNG ETITADHILI ATGGRPSHPD IPGVEYGIDSDGFFALPALP ERVAVVGAGY IAVELAGVIN GLGAKTHLFV RKHAPLRSFD PMISETLVEV MNAEGPQLHT NAIPKAVVKN TDGSLTLELE DGRSETVDCL IWAIGREPAN DNINLEAAGV KTNEKGYIVV DKYQNTNIEG IYAVGDNTGA VELTPVAVAA GRRLSERLFN NKPDEHLDYSNIPTVVFSHP PIGTVGLTEP QAREQYGDDQ VKVYKSS-FTA MYTAVTTHRQ PCRMKLVCVG SEEKIVGIHG IGFGMDEMLQ GFAVALKMGA TKKDFDNTVA IH-PTAAEEFV TMR.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile filtered colorless solution. Store at 4°C if entire vial will be used within 2-4 weeks.Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Formulation and Purity	The GOR solution (1mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol, 0.1M NaCl and 1mM DTT. Greater than 90.0% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	The specific activity is > 52 units/ml.One unit will reduce 1.0 umol of oxidized glutathione per minute at pH 7.5 at 25°C.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for Research Use Only