Creative Enzymes®

Glutathione Reductase from Human, Recombinant

Cat. No. NATE-0320

Lot. No. (See product label)

Introduction

Description	Glutathione reductase enzyme is a homodimeric enzyme containing 1 FAD molecule and 1 NADPH binding domain per subunit., Both human GR (hGR) and Plasmodium falciparum GR (PfGR) are essential for the survival of the malaria parasite within the human erythrocyte. Thus, this enzyme may be used for studies of candidate anti-malaria reagents.
Synonyms	glutathione-disulfide reductase; glutathione reductase; glutathione reductase (NADPH); NADPH-glutathione reductase; GSH reductase; GSSG reductase; NADPH-GSSG reductase; glutathione S-reductase; NADPH:oxidized-glutathione oxidoreductase; EC 1.8.1.7; 9001-48-3; GR

Product Information

Species	Human
Source	E. coli
Form	buffered aqueous solution; Solution containing 25 mM Tris-HCl, pH 7.4, 1 mM EDTA, and 50% (v/v) glycerol.
EC Number	EC 1.8.1.7
CAS No.	9001-48-3
Activity	> 10 units/mg protein
Pathway	Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, organism-specific biosystem; Glutathione metabolism, conserved biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Oxidative Stress, organism-specific biosystem; Selenium Pathway, organism-specific biosystem
Function	NADP binding; electron carrier activity; flavin adenine dinucleotide binding; glutathione binding; glutathione-disulfide reductase activity; oxidoreductase activity; protein homodimerization activity
Unit Definition	1 unit will reduce 1.0 µmole of DTNB to TNB per minute at 25°C at pH 7.5.

Storage and Shipping Information

Storage	−20°C