Recombinant Yeast Glc8p, His-tagged

Cat. No. GLC8-4377Y **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GLC8 Recombinant produced in Yeast is a single, glycosylated polypeptide chain containing 265 amino acids (1-229) and having a molecular mass of 30.7 kDa. The GLC8 is fused to 35 amino acid His Tag at N-Terminus and purified by standard chromatogrpahy techniques.
Species	S.cerevisiae
Source	Yeast
ProteinLength	1-229 a.a.
Description	GLC8 is a regulatory subunit of protein phosphatase 1 (Glc7p). GLC8 plays a role in glycogen metabolism and chromosome segregation, and regulates Glc7p activity through conformational alteration; ortholog of the mammalian protein phosphatase inhibitor 2. Under regular conditions, GLC8 triggers GLC7, but when GLC8 is over epxressed, it inhibits Glc7p function. GLC8 is activated upon phosphoylation by Pho85p complexed with four cyclins (Pcl6p, Pcl7p, Pcl8p, or Pcl10p).
Form	The protein solution contains 20mM Tris-HCl pH-8, 1mM DTT, and 10% glycerol, and 1mM EDTA.
Purity	Greater than 95% as determined by SDS-PAGE.
Physical Appearance	Sterile Filtered colorless solution.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Amino acid sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMGGI LKNPLALSPE QLAQQDPETL EEFRRQVYEN TQKNAKLTSH KRNIPGLDNT KEEGEIIGTS STFLPKDTLS LKHEQDMLAK MTPEERVQWN QRNLAENEIT KKQFQDIHID EPKTPYQGAV DPHGEYYRVD DDEDEDNSDK KPCQVANDDI DDLSLGEPEF EIKENKQPDF ETNDENDEDS PEARHKKFEE MRKKHYDVRA IFNKKSREAL KDEDEDEDDS TTKEP.
Storage	GLC8 although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name	GLC8 Glc8p [Saccharomyces cerevisiae S288c]
Official Symbol	GLC8
Synonyms	GLC8; Glc8p; GLC8 Glc8p; Regulatory subunit of protein phosphatase 1 (Glc7p), involved in glycogen metabolism and chromosome segregation; proposed to regulate Glc7p activity via conformational alteration; ortholog of the mammalian protein phosphatase inhibitor 2
Gene ID	855359
Protein Refseq	NP_014042
UniProt ID	P41818
Chromosome Location	XIII

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Function	enzyme activator activity

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