

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 chromatography 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 expressed, it inhibits Glc7p function. GLC8 is activated upon phosphorylation 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.

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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
 KDEDEDEDSS 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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