Recombinant Human PYGB

Cat. No. PYGB-26787TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length human GPBB; a single, non-glycosylated, polypeptide chain of 842 amino acids, 97 kDa.
Species	Human
Source	E.coli
Description	The protein encoded by this gene is a glycogen phosphorylase found predominantly in the brain. The encoded protein forms homodimers which can associate into homotetramers, the enzymatically active form of glycogen phosphorylase. The activity of this enzyme is positively regulated by AMP and negatively regulated by ATP, ADP, and glucose-6-phosphate. This enzyme catalyzes the rate-determining step in glycogen degradation.
Form	Liquid
Purity	70 - 90% by HPLC
Storage buffer	Preservative: NoneConstituents: 50% Glycerol
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the glycogen phosphorylase family.

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Full Length	Full L.

GENE INFORMATION

Gene Name	PYGB phosphorylase, glycogen; brain [Homo sapiens]
Official Symbol	PYGB
Synonyms	PYGB; phosphorylase, glycogen; brain; glycogen phosphorylase, brain form;
Gene ID	5834
mRNA Refseq	NM_002862
Protein Refseq	NP_002853
MIM	138550
Uniprot ID	P11216
Chromosome Location	20
Pathway	Glucose metabolism, organism-specific biosystem; Glycogen Metabolism, organism-specific biosystem; Glycogen breakdown (glycogenolysis), organism-specific biosystem; Insulin signaling pathway, organism-specific biosystem; Insulin signaling pathway, conserved biosystem;
Function	drug binding; glycogen phosphorylase activity; protein homodimerization activity; pyridoxal phosphate binding; sugar binding;

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