

## Product datasheet

# Glycogen synthase 1/GYS1 peptide ab204860

### Description

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<b>Product name</b>	Glycogen synthase 1/GYS1 peptide
<b>Animal free</b>	No
<b>Nature</b>	Synthetic
<b>Sequence</b>	YRRAAVPPSPSLSRHSSPHQ(pS)EDEEE
<b>Amino acids</b>	636 to 661

### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab204860** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	Functional Studies HPLC
<b>Form</b>	Lyophilized
<b>Additional notes</b>	ab204860 (Glycogen synthase 1/GYS1 peptide) can be utilized as a substrate for the following active protein kinases:  <a href="#">ab60863</a> (Active human GSK3 beta full length protein) <a href="#">ab63193</a> (Active human GSK3 beta full length protein)

This product was previously labelled as Glycogen synthase 1

### Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Store at -20°C. Avoid freeze / thaw cycle.
<b>Reconstitution</b>	Dilute peptide in 25mM Tris-HCl, pH 7.5 solution to a final concentration of 1 mg/ml. For optimal storage, aliquot diluted product into smaller quantities and store at recommended temperature.

### General Info

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<b>Function</b>	Transfers the glycosyl residue from UDP-Glc to the non-reducing end of alpha-1,4-glucan.
<b>Pathway</b>	Glycan biosynthesis; glycogen biosynthesis.
<b>Involvement in disease</b>	Defects in GYS1 are the cause of muscle glycogen storage disease type 0 (GSD0b) [MIM:611556]; also known as muscle glycogen synthase deficiency. GSD0b is a metabolic disorder characterized by fasting hypoglycemia presenting in infancy or early childhood. The role of muscle glycogen is to provide critical energy during bursts of activity and sustained muscle work.
<b>Sequence similarities</b>	Belongs to the glycosyltransferase 3 family.

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**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### **Our Abpromise to you: Quality guaranteed and expert technical support**

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- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
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- Extensive multi-media technical resources to help you
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