

Product datasheet

Glycogen synthase 1/GYS1 peptide ab204860

Description

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|---------------------|----------------------------------|
| Product name | Glycogen synthase 1/GYS1 peptide |
| Purity | > 95 % HPLC. |
| Animal free | No |
| Nature | Synthetic |
| Sequence | YRRAAVPPSPSLSRHSSPHQ(pS)EDEEE |
| Amino acids | 636 to 661 |

Specifications

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.

| | |
|-------------------------|--|
| Applications | Functional Studies HPLC |
| Form | Lyophilized |
| Additional notes | ab204860 (Glycogen synthase 1/GYS1 peptide) can be utilized as a substrate for the following active protein kinases: |

ab60863 (Active human GSK3 beta full length protein)

ab63193 (Active human GSK3 beta full length protein)

This product was previously labelled as Glycogen synthase 1

Preparation and Storage

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|------------------------------|--|
| Stability and Storage | Shipped at 4°C. Store at -20°C. Avoid freeze / thaw cycle. |
| Reconstitution | 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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|-------------------------------|---|
| Function | Transfers the glycosyl residue from UDP-Glc to the non-reducing end of alpha-1,4-glucan. |
| Pathway | Glycan biosynthesis; glycogen biosynthesis. |
| Involvement in disease | 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. |
| Sequence similarities | Belongs to the glycosyltransferase 3 family. |

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

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