

## Recombinant *Saccharomyces Cerevisiae* GSP1 Protein (2-219 aa), His-SUMO-tagged

**Cat. No.** GSP1-909S    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant <i>Saccharomyces Cerevisiae</i> (strain ATCC 204508/S288c) GSP1 Protein (2-219 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Protein Description: Full Length of Mature Protein.                                                                                    |
| <b>Species</b>          | <i>S.cerevisiae</i>                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | 2-219 aa                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | GTP-binding protein involved in nucleoCytoplasmic domain transport. Required for the import of protein into the nucleus and also for RNA export. Essential for cell viability. By analogy with Ras, Ran may be activated when GTP is exchanged for bound GDP by RCC1 and inactivated when GTP is hydrolyzed by Ran upon activation by RanGAP1. |
| <b>Form</b>             | Tris-based buffer, 50% glycerol                                                                                                                                                                                                                                                                                                                |
| <b>Molecular Mass</b>   | 40.7 kDa                                                                                                                                                                                                                                                                                                                                       |
| <b>AA Sequence</b>      | SAPAANGEVPTFKLVLVGDGGTGKTTFVKRHLTGEFEKKYIATIGVEVHPLSFYTNFG<br>EIKFDVWDTAGQEKFGGLRDGYGINAQCAIIMFDVTSRITYKNVPNWHRDLVRVCEN<br>IPIVLCGNKVDVKERKVKAKTITFHRKKNLQYYDISAKSNYNFEKPFLWLARKLAGNP<br>QLEFVASPALAPPEVQVDEQLMQQYQQEMEQAATALPLPEDDADL                                                                                                         |

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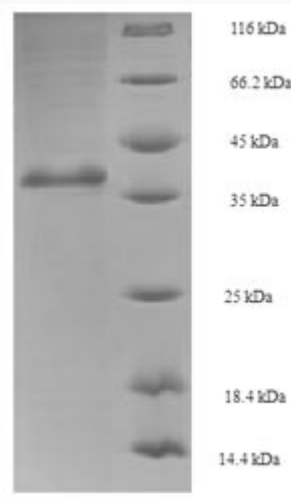
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|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>        | > 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                    |
| <b>Notes</b>         | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.                                                                                                                                                                                                        |
| <b>Storage</b>       | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade. |
| <b>Concentration</b> | A hardcopy of COA with concentration instruction is sent along with the products.                                                                                                                                                                                                                                   |

## GENE INFORMATION

**UniProt ID** [P32835](#)



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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