

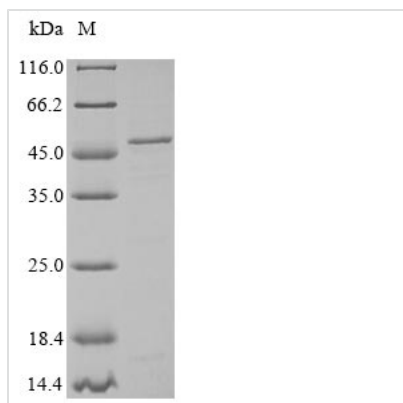


# Recombinant Bacillus subtilis Signal transduction histidine-protein kinase/phosphatase DegS (degS)

<b>Product Code</b>	CSB-EP320275BRJ
<b>Relevance</b>	Member of the two-component regulatory system DegS/DegU, which plays an important role in the transition growth phase. Involved in the control of expression of different cellular functions, including production of degradative enzymes such as the neutral and alkaline proteases, flagellum formation and biofilm formation. Acts as both a protein kinase that undergoes autophosphorylation and subsequently transfers the phosphate to DegU, and a protein phosphatase that dephosphorylates phospho-DegU.
<b>Abbreviation</b>	Recombinant Bacillus subtilis degS protein
<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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P13799
<b>Alias</b>	sacU
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Bacillus subtilis (strain 168)
<b>Purity</b>	Greater than 85% as determined by SDS-PAGE.
<b>Sequence</b>	MNKTkMDSKVLDSILMKMLKTVdGSKDEVFQIGEQSRQQYEQLVEELKQIKQQ VYEVIELGDKLEVQTRHARNRLSEVSRNFHRFSEEEIRNAYEKAHKLQVELTMI QQREKQLRERRDDLERRLLGLQEIIERSESLVSQITVVLNLYLNQDLREVGLLLA DAQAKQDFGLRIIEAQEEERKRVSR EIHdGPAQMLANVMMRSELIERIFRDRG AEDGFQEIKNLRQNVRNALYEVRRIIYDLRPMALDDLGLIPTLRKYLYTTEEYNG KVKIHFQCIGETEDQRLAPQFEVALFRLAQEAVSNALKHSESEEITVKVEITKDF VILMIKDNGKGFDLKEAKEKNKSFGLLGMKERVLDLLEGTMTIDSKIGLGTfIMI KVPLSL
<b>Research Area</b>	others
<b>Source</b>	E.coli
<b>Target Names</b>	degS
<b>Protein Names</b>	Recommended name: Signal transduction histidine-protein kinase/phosphatase DegS EC= 2.7.13.3 EC= 3.1.3.-
<b>Expression Region</b>	1-385aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-tagged
<b>Mol. Weight</b>	49.0kDa


**Protein Length**

Full Length

**Image**


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

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

**Shelf Life**

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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.