

## Recombinant Human SMS protein, GST-tagged

**Cat. No.** SMS-8789H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human SMS protein(1-366 aa), fused with N-terminal GST tag, was expressed in E. coli.                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E. coli                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | 1-366 aa                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Form</b>             | The purified protein was lyophilized from sterile phosphate-buffered saline (PBS: 58 mM Na <sub>2</sub> HPO <sub>4</sub> , 17 mM NaH <sub>2</sub> PO <sub>4</sub> , 68 mM NaCl, pH 8.0). Prior to lyophilization, 5% (w/v) trehalose and 5% (w/v) mannitol were incorporated as cryoprotective excipients. The protein was eluted with a buffer containing 100 mM reduced glutathione (GSH).         |
| <b>AASequence</b>       | MAAARHSTLDFMLGAKADGETILKGLQSIFQEQGMAESVHTWQDHGYLATYTNKNG<br>SFANLRIYPHGLVLLDLQSYDGDAQGKEEIDSILNKVEERMKELSQDSTGRVKRLPPI<br>VRGGAIDRYWPTADGRLVEYDIDEVYDEDSFYQNIKILHSKQFGNIIILSGDVNLAE<br>SDLAYTRAIMGSGKEDYTGKDVILGGGDGGILCEIVKLKPKMVTMVEIDQMVIDGCK<br>KYMRTCTGDVLDNLKGDCYQVLIEDCIPVLKRYAKEGREFDYVINDLTAVPISTPSEE<br>DSTWEFLRLILDLSMKVLKQDGKYFTQGNCVNLTEALSLYEEQLGRLYCPVEFSKEI<br>VCVPSYLELWVFYTVWKKAKP |
| <b>Purity</b>           | 85%, by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                    |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Storage** Store at 2-8°C for 1-2 weeks. Aliquot and store at -20°C to -80°C for up to 3 months, reconstitution with sterile water and addition of an equal volume of glycerol. Avoid repeat freeze-thaw cycles.

**Reconstitution** It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

**Gene Name** SMS spermine synthase [ Homo sapiens ]

**Official Symbol** SMS

**Synonyms** SMS; spermine synthase; Snyder Robinson X linked mental retardation syndrome , SRS; MRSR; SPMSY; SpS; spermidine aminopropyltransferase; Snyder-Robinson X-linked mental retardation syndrome; SRS;

**mRNA Refseq** NM\_004595

**Protein Refseq** NP\_004586

**MIM** 300105

**UniProt ID** P52788

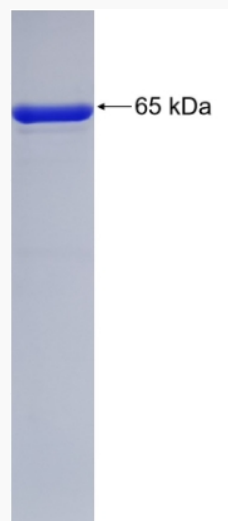
**Gene ID** 6611

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SDS-PAGE

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