

## Recombinant Mouse Sct Protein, Myc/DDK-tagged

**Cat. No.** Sct-5725M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Purified recombinant protein of mouse full-length secretin (Sct), with C-terminal MYC/DDK tag, expressed in HEK293T cells.  |
| <b>Species</b>          | Mouse   |
| <b>Source</b>           | HEK293  |
| <b>Description</b>      | This gene encodes the precursor of a gastrointestinal peptide hormone of the secretin-glucagon family. The encoded protein is secreted as a prohormone that undergoes proteolytic processing to generate a mature peptide hormone. The mature peptide regulates secretion of gastric acid, bicarbonate ions from pancreatic and biliary duct epithelia and water homeostasis in the gastrointestinal system. Mice lacking the encoded protein display decreased survival of neuroprogenitor cells during early postnatal period and impaired long-term potentiation and spatial learning in adulthood. Alternative splicing results in multiple transcript variants encoding different isoforms. All of these isoforms may be processed in a similar manner to generate the mature peptide hormone. |
| <b>Molecular Mass</b>   | 15.4 kDa  |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining   |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.   |

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|                       |   |
|-----------------------|---|
| <b>Storage</b>        | Store at -80 centigrade after receiving vials.        |
| <b>Concentration</b>  | >50 µg/mL as determined by microplate BCA method      |
| <b>Storage Buffer</b> | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol. |

## GENE INFORMATION

|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | Sct secretin [ Mus musculus (house mouse) ] |
| <b>Official Symbol</b> | Sct   |
| <b>Synonyms</b>        | Sct; secretin; secretin                     |
| <b>Gene ID</b>         | 20287                                       |
| <b>mRNA Refseq</b>     | NM_011328                                   |
| <b>Protein Refseq</b>  | NP_035458                                   |
| <b>UniProt ID</b>      | Q08535                                      |

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