

## Recombinant Mouse Sct protein, His & T7-tagged

Cat. No. Sct-1476M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Sct aa. (Pro26~Arg133 (Accession # Q08535)) fused with N-terminal His & T7 tag was produced in E. coli cells.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	Pro26~Arg133
<b>Description</b>	<p>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.</p>
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 16.2kDa.
<b>Endotoxin</b>	<1.0EU per 1g (determined by the LAL method).

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<b>Purity</b>	>95%
<b>Characteristic</b>	The isoelectric point is 8.1.
<b>Applications</b>	SDS-PAGE; WB; ELISA; IP.
<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
<b>Storage buffer</b>	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
<b>Reconstitution</b>	Reconstitute in sterile PBS, pH7.2-pH7.4.

## GENE INFORMATION

<b>Gene Name</b>	Sct secretin [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Sct
<b>Synonyms</b>	secretin
<b>Gene ID</b>	20287
<b>mRNA Refseq</b>	NM_001287171.1
<b>Protein Refseq</b>	NP_001274100.1

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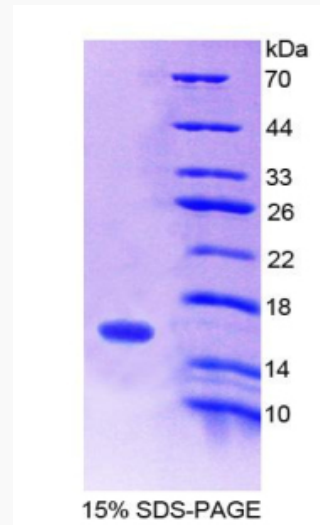
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UniProt ID

Q08535

SDS-PAGE



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