

Recombinant Mouse Proc protein, His & GST-tagged

Cat. No. Proc-826M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Proc aa. (Lys197~Lys436 (Accession # P33587)) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Lys197~Lys436
Description	This gene encodes the vitamin K-dependent protein C, which plays a vital role in the anticoagulation pathway. The encoded protein undergoes proteolytic processing including activation by thrombin-thrombomodulin complex to form the anticoagulant serine protease that degrades activated coagulation factors. A complete lack of the encoded protein in mice results in severe perinatal consumptive coagulopathy in the brain and liver, resulting in death within 24 hours after birth. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo similar processing to generate the mature protein.
Form	Freeze-dried powder
Molecular Mass	50&80kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 6.1.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in 20mM Tris, 500mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in ddH ₂ O.

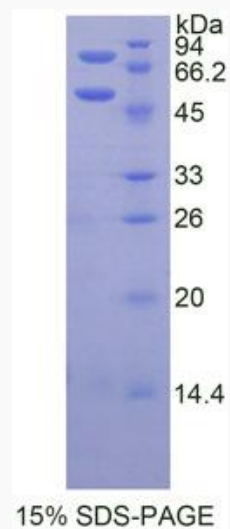
GENE INFORMATION

Gene Name	Proc protein C [Mus musculus (house mouse)]
Official Symbol	Proc
Synonyms	PC; anticoagulant protein C; autoproteothrombin IIA; blood coagulation factor XIV; inactivator of coagulation factors Va, VIII; vitamin K-dependent protein C
Gene ID	19123
mRNA Refseq	NM_001042767.3
Protein Refseq	NP_001036232.1

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