Recombinant Mouse Proc Protein, Myc/DDK-tagged

Cat. No. Proc-5137M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length protein C (Proc), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
ProteinLength	1-460 aa
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.
Molecular Mass	51.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	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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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Proc protein C [Mus musculus (house mouse)]
Official Symbol	Proc
Synonyms	Proc; protein C; P; PC; vitamin K-dependent protein C; anticoagulant protein C; autoprothrombin IIA; blood coagulation factor XIV; inactivator of coagulation factors Va, VIII; EC 3.4.21.69
Gene ID	19123
mRNA Refseq	NM_001042768
Protein Refseq	NP_001036233
UniProt ID	P33587

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