Recombinant Mouse F13a1 Protein, Myc/DDK-tagged

Cat. No. F13a1-2900M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length coagulation factor XIII, A1 subunit (F13a1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	This gene encodes subunit A of the coagulation factor XIII that catalyzes the final step of the blood coagulation pathway. The encoded protein associates with subunit B to form a heterotetrameric proenzyme that undergoes thrombin-mediated proteolysis to generate active factor XIIIa. The transglutaminase activity of factor XIIIa is required for the calcium-dependent crosslinking of fibrin, leading to the formation of a clot. Mice lacking the encoded protein display impaired reproduction and reduced survival due to bleeding episodes, hematothorax, hematoperitoneum and subcutaneous hemorrhage. Additionally, mice lacking the encoded protein exhibit impaired wound healing and inadequate healing of myocardial infarction. Alternative splicing results in multiple transcript variants.
Molecular Mass	83.2 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	F13a1 coagulation factor XIII, A1 subunit [Mus musculus (house mouse)]
Official Symbol	F13a1
Synonyms	F13A1; coagulation factor XIII, A1 subunit; coagulation factor XIII A chain; Factor XIIIA; coagulation factor XIIIa; transglutaminase A chain; coagulation factor XIII, alpha subunit; protein-glutamine gamma-glutamyltransferase A chain; F13a; AI462306; 1200014I03Rik
Gene ID	74145
mRNA Refseq	NM_001166391
Protein Refseq	NP_001159863
UniProt ID	Q8BH61

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