

Active Recombinant Mouse Fap Protein

Cat. No. Fap-01M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Fibroblast Activation Protein alpha/FAP protein (Leu26-Asp761) Protein without tag was expressed in Mouse myeloma cell line, NS0.
Species	Mouse
Source	NS0
ProteinLength	26-761 a.a.
Description	This gene belongs to the serine protease family. The encoded protein is an inducible cell-surface bound glycoprotein specifically expressed in tumor-associated fibroblasts and pericytes of epithelial tumors and has protease and gelatinase activity. The protein plays a role in remodeling of the extracellular matrix (ECM) and may affect tumorigenesis and tissue repair. Alternately spliced transcript variants of this gene are described in the literature (PMID 9139873), but the full-length sequence of these variants is not available.
Bio-activity	Measured by its ability to convert the substrate benzyloxycarbonyl-Gly-Pro-7-amido-4-methylcoumarin (Z-GP-AMC) to Z-Gly-Pro and 7-amino-4-methylcoumarin (AMC). The specific activity is >2000 pmol/min/μg, as measured under the described conditions.
Molecular Mass	85 kDa
N-terminal Sequence Analysis	Leu26 & Val31

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Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 95% by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Applications	Enzyme Activity
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.
Storage Buffer	Supplied as a 0.2 μm filtered solution in Tris, NaCl and Glycerol.
Shipping	The product is shipped with polar packs.

GENE INFORMATION

Gene Name	Fap fibroblast activation protein [Mus musculus (house mouse)]
Official Symbol	Fap
Synonyms	Fap; fibroblast activation protein; SIMP; prolyl endopeptidase FAP; FAPalpha; dipeptidyl peptidase FAP; fibroblast activation protein alpha; gelatine degradation protease FAP; integral membrane serine protease; post-proline cleaving enzyme; seprase; serine integral membrane protease; surface-expressed protease; EC 3.4.14.5; EC 3.4.21.26
Gene ID	14089
mRNA Refseq	NM_007986

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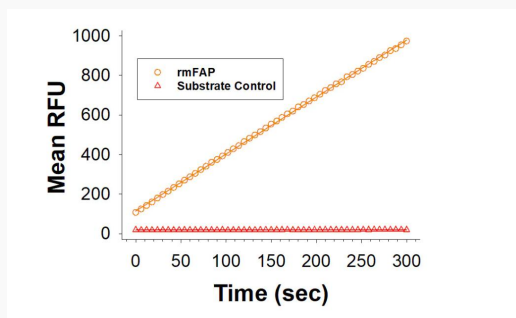
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Protein Refseq NP_032012

UniProt ID P97321

**Recombinant Mouse
FAP Protein Enzyme
Activity**



Recombinant Mouse FAP is measured by its ability to convert the substrate benzyloxycarbonyl-Gly-Pro-7-amido-4-methylcoumarin (Z-GP-AMC) to Z-Gly-Pro and 7-amino-4-methylcoumarin (AMC).

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