

## Active Recombinant Mouse Fap Protein

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant mouse Fibroblast Activation Protein alpha/FAP protein (Leu26-Asp761) Protein without tag was expressed in Mouse myeloma cell line, NS0.
<b>Species</b>	Mouse
<b>Source</b>	NS0
<b>ProteinLength</b>	26-761 a.a.
<b>Description</b>	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.
<b>Bio-activity</b>	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.
<b>Molecular Mass</b>	85 kDa
<b>N-terminal Sequence Analysis</b>	Leu26 & Val31

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<b>Endotoxin</b>	< 1 EU/μg of protein (determined by LAL method)
<b>Purity</b>	> 95% by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
<b>Applications</b>	Enzyme Activity
<b>Storage</b>	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.
<b>Storage Buffer</b>	Supplied as a 0.2 μm filtered solution in Tris, NaCl and Glycerol.
<b>Shipping</b>	The product is shipped with polar packs.

## GENE INFORMATION

<b>Gene Name</b>	Fap fibroblast activation protein [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Fap
<b>Synonyms</b>	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
<b>Gene ID</b>	14089
<b>mRNA Refseq</b>	NM_007986

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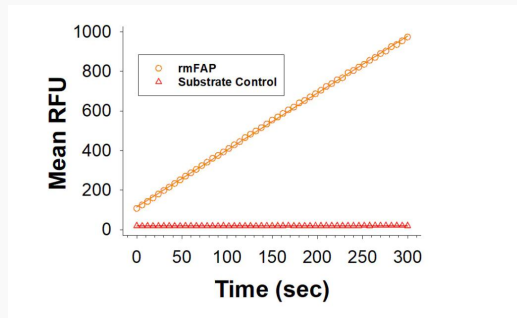
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**Protein Refseq** NP\_032012

**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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