

# Cynomolgus FAP Protein; His Tag

## Product Information

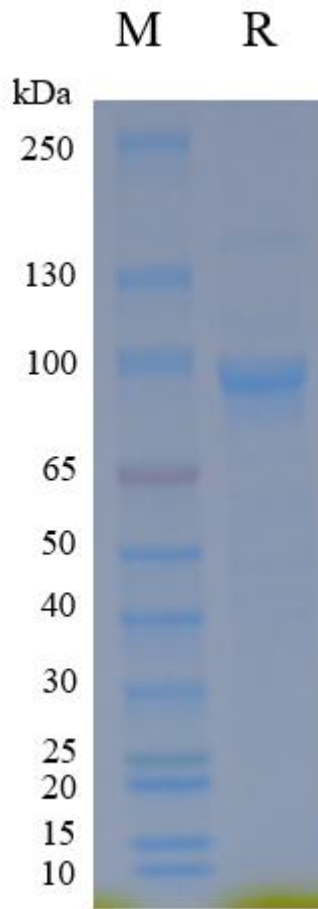
<b>Product Name</b>	Cynomolgus FAP Protein; His Tag
<b>Storage temp</b>	Store at $\leq -70^{\circ}\text{C}$ , stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
<b>Catalog# / Size</b>	<b>GM-88618RP-100 / 100 <math>\mu\text{g}</math></b> <b>GM-88618RP-1000 / 1 mg</b>

## Protein Information

<b>Alternative Names</b>	FAPalpha, SIMP, Seprase, APCE
<b>Source</b>	Cynomolgus FAP Protein; His Tag (GM-88618RP) is expressed from human 293 cells (HEK-293). It contains AA Leu 26 - Asp 760 (Accession # XP_005573377.1). This protein carries a His tag at the N-terminus.
<b>Purity</b>	> 95% as determined by SDS-PAGE
<b>Endotoxin</b>	< 1 EU/ $\mu\text{g}$ , determined by LAL gel clotting assay
<b>Predicted Mol Mass</b>	85.9 KDa
<b>Formulation</b>	Supplied as a 0.2 $\mu\text{m}$ filtered solution of PBS, pH7.2-7.4.
<b>Description</b>	<p>FAP protein (Fibroblast Activation Protein) is a transmembrane serine protease that belongs to the dipeptidyl peptidase (DPP) family. It is encoded by the FAP gene and is a protein associated with the human tumor microenvironment and immune system. FAP protein was initially discovered on cancer-associated fibroblasts (CAFs) in solid tumors and later detected on activated fibroblasts in wound healing, chronic inflammation, and certain sarcoma cells.</p> <p>FAP protein regulates the activity of tumor-associated fibroblasts and immune cells by binding to its substrates, including collagen, gelatin, fibroblast growth factor (FGF), and the cytokine stromal cell-derived factor-1 (SDF-1/CXCL12). Cancer-associated fibroblasts are an important type of stromal cell with the ability to remodel the extracellular matrix, promote tumor growth, and suppress anti-tumor immune responses, making them crucial members of the tumor microenvironment.</p> <p>Research indicates that FAP protein plays a significant role in regulating fibroblast activity, promoting tumor progression, and modulating immune suppression. Additionally, the expression of FAP protein is associated with tumor development, invasion, and poor prognosis, making it a potential target for immunotherapy, including FAP-targeted CAR-T cells, antibody-drug conjugates (ADCs), and small molecule inhibitors for cancer treatment.</p>

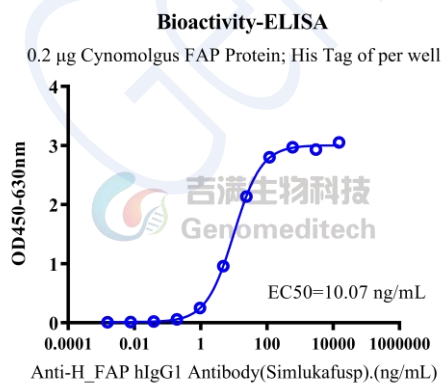
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## SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-ELISA



Cynomolgus FAP Protein; His Tag (Catalog # GM-88618RP) was immobilized at 2 µg/ml (100 µL/well). Increasing concentrations of Anti-H\_FAP hIgG1 Antibod (Simlukafusp) (Catalog # GM-30156AB) were added.

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