

# Human FAP Protein, His Tag, active dimer (MALS verified)

Catalog # FAP-H5244



BIOSYSTEMS  
**Acro**  
Surprise Inside!

## Synonym

FAP, FAPalpha, SIMP, Seprase, APCE

## Source

Human FAP, His Tag (FAP-H5244) is expressed from human 293 cells (HEK293). It contains AA Leu 26 - Asp 760 (Accession # [Q12884-1](#)).

Predicted N-terminus: His

## Molecular Characterization

Poly-his FAP(Leu 26 - Asp 760)  
Q12884-1

This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 86.9 kDa. The protein migrates as 95 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 0.1 EU per µg by the LAL method.

## Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

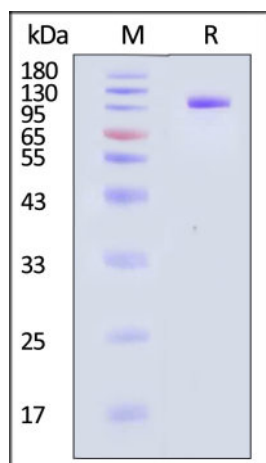
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

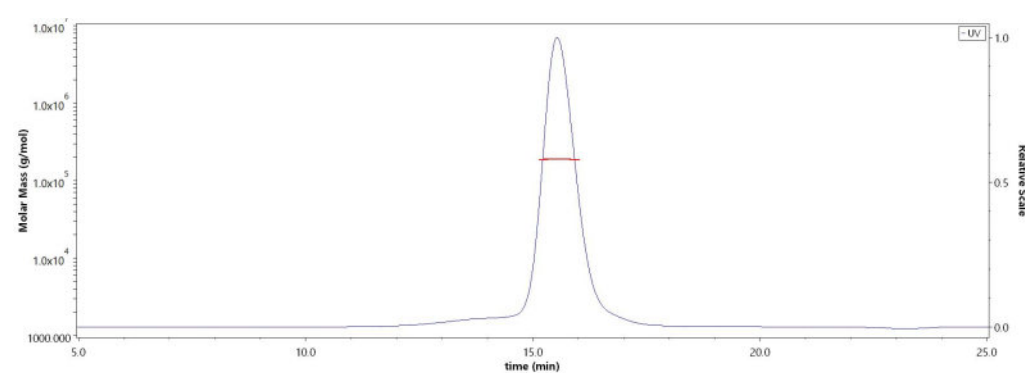
## SDS-PAGE



Human FAP, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-ELISA

## SEC-MALS

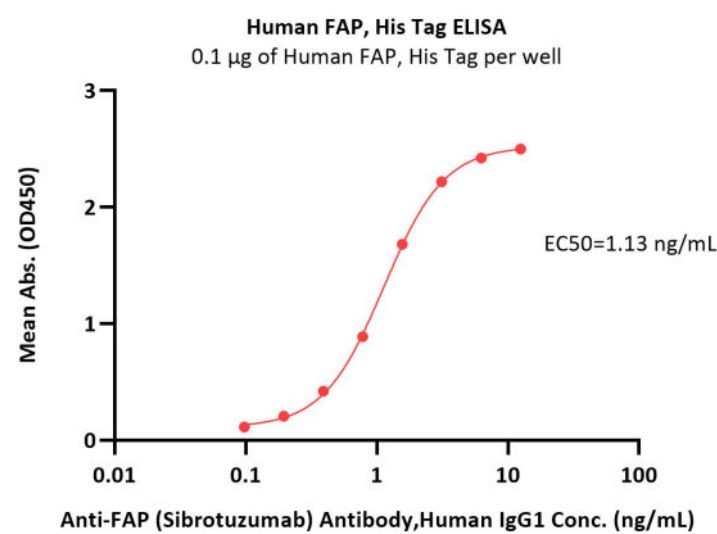
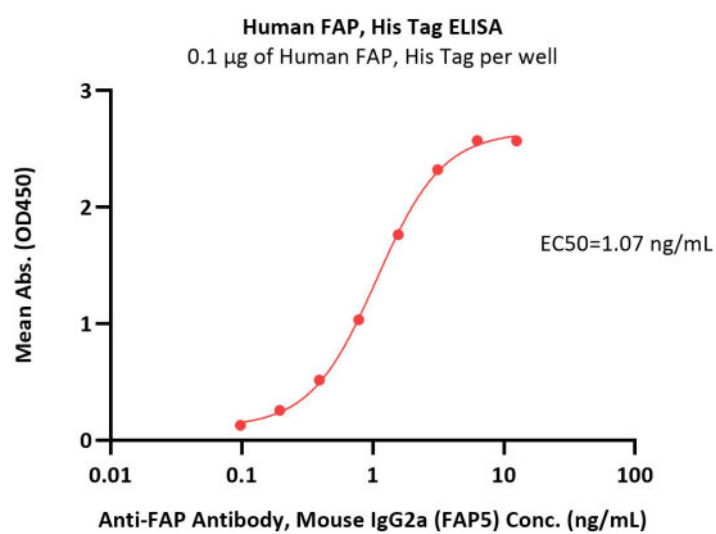


The purity of Human FAP, His Tag (Cat. No. FAP-H5244) is more than 95% and the molecular weight of this protein is around 180-220 kDa verified by SEC-MALS.

[Report](#)

Discounts, Gifts,  
and more!

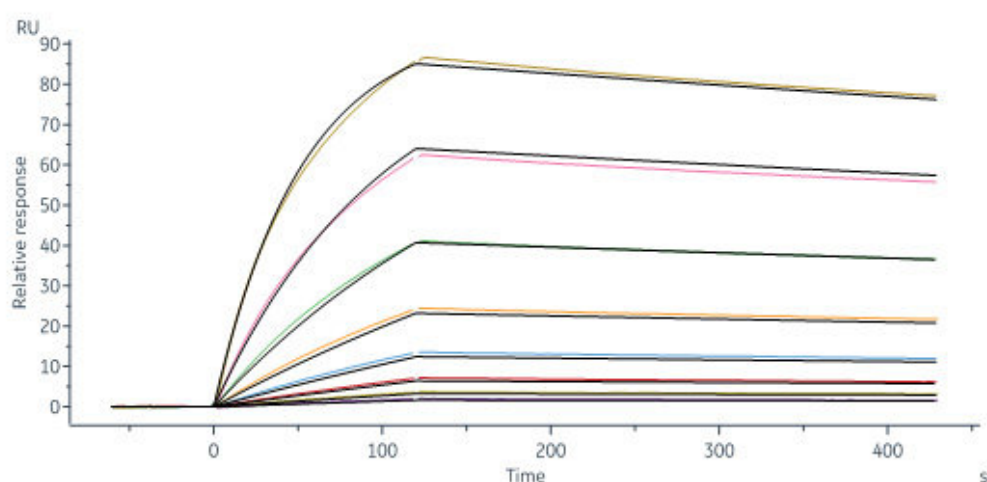




Immobilized Human FAP, His Tag (Cat. No. FAP-H5244) at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-FAP (FAP5) Antibody, Mouse IgG2a with a linear range of 0.1-2 ng/mL (QC tested).

Immobilized Human FAP, His Tag (Cat. No. FAP-H5244) at 1 µg/mL (100 µL/well) can bind Anti-FAP (Sibrotuzumab) Antibody, Human IgG1 with a linear range of 0.1-2 ng/mL (Routinely tested).

**Bioactivity-SPR**



Anti-FAP Antibody, Mouse IgG2a (FAP5) captured on CM5 chip via anti-mouse antibodies surface can bind Human FAP, His Tag (Cat. No. FAP-H5244) with an affinity constant of 9.47 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

**Bioactivity**

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 >8000 pmol/min/µg (QC tested).

**Background**

FAP (also known as seprase) is a Type II transmembrane serine protease. Both plasma membrane and soluble forms exhibit post-proline cleaving endopeptidase activity, with a marked preference for Ala/Ser-Gly-Pro-Ser/Asn/Ala consensus sequences. Degrade also gelatin, heat-denatured type I collagen. Also has dipeptidyl peptidase activity, with a preference for Ala-Pro, Ile-Pro, Gly-Pro, Arg-Pro and Pro-Pro. The plasma membrane form, in association with either DPP4, PLAUR or integrins, is involved in the pericellular proteolysis of the extracellular matrix (ECM), and hence promotes cell adhesion, migration and invasion through the ECM. Promotes glioma cell invasion through the brain parenchyma by degrading the proteoglycan brevican. Acts as a tumor suppressor in melanocytic cells through regulation of cell proliferation and survival in a serine protease activity-independent manner.

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