

FAP Protein, Human, Recombinant (hFc)

General Information

Synonyms:	FAPA;SIMP;DPPIV;FAP α ;FAP;Seprase;FAPalpha;DPPIVA;APCE
Protein Construction:	Leu26-Asp760
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q12884-1
Molecular Weight:	112.3 kDa (predicted). Due to glycosylation, the protein migrates to 110-120 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human FAP, hFc Tag at 2 μ g/ml (100 μ l/Well) on the plate. Dose response curve for Biotinylated Anti-FAP Antibody, hFc Tag with the EC50 of 11.1ng/ml determined by ELISA (QC Test).
Purity:	> 95% as determined by Tris-Bis PAGE; > 90% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Fibroblast activation protein (FAP) is a serine protease that has been reported in fibroblasts and some carcinoma cells, which correlates with poor patient outcomes. FAP can be induced under hypoxia which is also vital in the malignant behaviors of cancer cells.

Reference

Zou B, et al. The Expression of FAP in Hepatocellular Carcinoma Cells is Induced by Hypoxia and Correlates with Poor Clinical Outcomes. J Cancer. 2018;9(18):3278-3286. Published 2018 Sep 7. doi:10.7150/jca.25775.

Shi M, Wang F, Lu Z, et al. Elucidating the linagliptin and human fibroblast activation protein binding mechanism through molecular dynamics and binding free energy analysis. iScience. 2024

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481