

Active Recombinant Human FAP Protein, His-tagged

Cat. No. FAP-006H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human FAP, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect cells
Description	The protein encoded by this gene is a homodimeric integral membrane gelatinase belonging to the serine protease family. It is selectively expressed in reactive stromal fibroblasts of epithelial cancers, granulation tissue of healing wounds, and malignant cells of bone and soft tissue sarcomas. This protein is thought to be involved in the control of fibroblast growth or epithelial-mesenchymal interactions during development, tissue repair, and epithelial carcinogenesis. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Form	Liquid
Bio-activity	Specific activity is > 5,000 pmol/min/μg, and is defined as the amount of enzyme that hydrolysis 1.0 pmole of Z-GP-AMC per minute at pH 7.5, at 37 centigrade.
Molecular Mass	86.1 kDa
AA Sequence	LRPSRVHNSEENTMRALTLKDILNGTFSYKTFPPNWISGQEYLHQSADNNIVLYNIET GQSYTILSNRTMKSVNASNYGLSPDRQFVYLESDYSKLRWRYSYTATYYIYDLNNGEF VRGNELPRIQYLCWSPVGSKLAYVYQNNIYLKQRPGDPPFQITFNGRENKIFNGIP

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DWVYEEMLATKYALWWSPNGKFLAYAEFNDDIPVIAYSYYGDEQYPRTINIPYPK
 AGAKNPVVRIFIIDTTYPAYVGPQEVVPAMIASSDYFWSLWVTDERVCLQWLKR
 VQNVSVLSICDFREDWQTWDCPKTQEHIEESRTGWAGGFFVSTPVFSYDAISYYKIF
 SDKDGYKHIHYIKDTVENAIQITSGKWEAINIFRVTQDSLFSYSSNEFEEYPGRRNIYRI
 SIGSYPPSKKCVTCHLRKERCQYYTASFSDYAKYYALVCYGPPISTLHDGRDQEI
 KILEENKELENALKNIQLPKKEIKKLEVDEITLWYKMILPPQFDRSKKYPLLIQVYGGPC
 SQSVRSVFAVNWISYLASKEGMVIALVDGRGTAFFQGDKLLYAVYRKLGVYEVEDQIT
 AVRKFIEMGFIDEKRIAIWGWSYGGYVSSLALASGTGLFKCGIAPVSSWEYYASV
 YTERFMGLPTKDDNLEHYKNSTVMARAEYFRNVDYLLIHGTADDNVHFQNSAQIAK
 ALVNAQVDFQAMWYSDQNHGLSGLSTNHLYTHMTHFLKQCFLSD

Endotoxin < 1 EU/μg of protein (determined by LAL method)

Purity > 90% by SDS-PAGE

Applications SDS-PAGE, Enzyme Activity

Storage Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -85 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/mL (determined by absorbance at 280nm)

Storage Buffer Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol

GENE INFORMATION

Gene Name FAP fibroblast activation protein alpha [Homo sapiens (human)]

Official Symbol FAP

Synonyms FAP; fibroblast activation protein alpha; FAPA; SIMP; DPPIV; FAPalpha; prolyl

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endopeptidase FAP; 170 kDa melanoma membrane-bound; gelatinase; dipeptidyl peptidase FAP; gelatine degradation protease FAP; integral membrane serine protease; post-proline cleaving enzyme; seprase; surface-expressed protease; EC 3.4.14.5; EC 3.4.21.26

Gene ID 2191

mRNA Refseq NM_004460

Protein Refseq NP_004451.2

MIM 600403

UniProt ID Q12884

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