

Seprase Recombinant Protein | FAP recombinant protein

Recombinant Human Seprase

CATALOG #
AAA116218

HOST
E Coli or Yeast or Baculovirus or Mammalian Cell

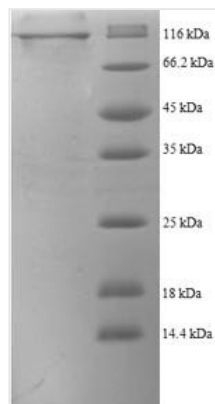
PRODUCT SYNONYMS

Seprase; Recombinant Human Seprase; 170 kDa melanoma membrane-bound gelatinase2; FAP recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	26-760aa; partial
Sequence	LRPSRVHNSE ENTMRALTLK DILNGTFSYK TFFPNWISGQ EYLHQSadnn IVLYNIETGQ SYTILSNRTM KSVNASNYGL SPDRQFVYLE SDYSKLWRYs YTATYYIYDL SNGEFVRGNE LRPRIQYLCW SPVGSKLAYV YQNNIYLKQR PGDPPFQITF NGRENKIFNG IPDWVYEEEM LATKYALWWS PNGKFLAYAE FNDTDIPVIA YSYYGDEQYP RTINIPYPKA GAKNPVVRIF IIDTTYPAYV GPQEVVPVAM IASSDYFFSW LTWVTDERVC LQWLKRVQNV SVLSICDFRE DWQTWDCPKT QEHIIESRTG WAGGFFVSTP VFSYDAISYY KIFSDKDGYK HIHIKDTVE NAIQITSGKW EAINIFRVTQ DSLFYSSNEF EEYPGRRNIY RISIGSYPPS KKCVTCHLRK ERCQYYTASF SDYAKYYALV CYGPGIPIST LHDGRDQEI KILEENKELE NALKNIQLPK EEIKKLEVDE ITLWYKMILP PQFDRSKKYP LLIQVYGGPC SQSVRSVFAV NWISYLASKE GMVIALVDGR GTAFQGDKLL YAVYRKLGVY EVEDQITAVR KFIEMGFIDE KRIAIWGWSY GGYVSSLALA SGTGLFKCGI AVAPVSSWEY YASVYTERFM GLPTKDDNLE HYKNSTVMAR AEYFRNVdYL LIHGTADDNV HFQNSAQIAK ALVNAQVDFQ AMWYSDQNHG LSGLSTNHLY THMTHFLKQC FSLSD
Sequence Length	239
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for FAP recombinant protein	Cell surface glycoprotein serine protease that participates in extracellular matrix degradation and involved in many cellular processes including tissue remodeling, fibrosis, wound healing, inflammation and tumor growth. 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, on substrate such as alpha-2-antiplasmin SERPINF2 and SPRY2. Degrade also gelatin, heat-denatured type I collagen, but not native collagen type I and IV, vitronectin, tenascin, laminin, fibronectin, fibrin or casein. Have also dipeptidyl peptidase activity, exhibiting the ability to hydrolyze the prolyl bond two residues from the N-terminus of synthetic dipeptide substrates provided that the penultimate residue is proline, with a preference for Ala-Pro, Ile-Pro, Gly-Pro, Arg-Pro and Pro-Pro. Natural neuropeptide hormones for dipeptidyl peptidase are the neuropeptide Y (NPY), peptide YY (PYY), substance P (TAC1) and brain natriuretic peptide 32 (NPPB). 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. Plays a role in tissue remodeling during development and wound healing. Participates in the cell invasiveness towards the ECM in malignant melanoma cancers. Enhances tumor growth progression by increasing angiogenesis, collagen fiber degradation and apoptosis and by reducing antitumor response of the immune system. 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.
Product Categories/Family for FAP recombinant protein	Cancer
References	Molecular cloning of fibroblast activation protein alpha, a member of the serine protease family selectively expressed in stromal fibroblasts of epithelial cancers.Scanlan M.J., Raj B.K.M., Calvo B., Garin-Chesa P., Sanz-Moncasi M.P., Healey J.H., Old L.J., Rettig W.J.Proc. Natl. Acad. Sci. U.S.A. 91:5657-5661(1994) Molecular cloning of seprase a serine integral membrane protease from human melanoma.Goldstein L.A., Ghersi G., Pineiro-Sanchez M.L., Salamone M., Yeh Y., Flessate D., Chen W.-T.Biochim. Biophys. Acta 1361:11-19(1997) Identification of the 170-kDa melanoma membrane-bound gelatinase (seprase) as a serine integral membrane protease.Pineiro-Sanchez M.L., Goldstein L.A., Dodt J., Howard L., Yeh Y., Chen W.-T.J. Biol. Chem. 272:7595-7601(1997) Identification of an alternatively spliced seprase mRNA that encodes a novel intracellular isoform.Goldstein L.A., Chen W.-T.J. Biol. Chem. 275:2554-2559(2000) Generation and annotation of the DNA sequences of human chromosomes 2 and 4.Hillier L.W., Graves T.A., Fulton R.S., Fulton L.A., Pepin K.H., Minx P., Wagner-McPherson C., Layman D., Wylie K., Sekhon M., Becker M.C., Fewell G.A., Delehaunty K.D., Miner T.L., Nash W.E., Kremitzki C., Oddy L., Du H., Sun H., Bradshaw-Cordum H., Ali J., Carter J., Cordes M., Harris A., Isak A., van Brunt A., Nguyen C., Du F., Courtney L., Kalicki J., Ozersky P., Abbott S., Armstrong J., Belter E.A., Caruso L., Cedroni M., Cotton M., Davidson T., Desai A., Elliott G., Erb T., Fronick C., Gaige T., Haakenson W., Haglund K., Holmes A., Harkins R., Kim K., Kruchowski S.S., Strong C.M., Grewal N., Goyea E., Hou S., Levy A., Martinka S., Mead K., McLellan M.D., Meyer R., Randall-Maher J., Tomlinson C., Dauphin-Kohlberg S., Kozlowicz-Reilly A., Shah N., Swearengen-Shahid S., Snider J., Strong J.T., Thompson J., Yoakum M., Leonard S., Pearman C., Trani L., Radionenko M., Waligorski J.E., Wang C., Rock S.M., Tin-Wollam A.-M., Maupin R., Latreille P., Wendl M.C., Yang S.-P., Pohl C., Wallis J.W., Spieth J., Bieri T.A., Berkowicz N., Nelson J.O., Osborne J., Ding L., Meyer R., Sabo A., Shotland Y., Sinha P., Wohldmann P.E., Cook L.L., Hickenbotham M.T., Eldred J., Williams D., Jones T.A., She X., Ciccarelli F.D., Izaurralde E., Taylor J., Schmutz J., Myers R.M., Cox D.R., Huang X., McPherson J.D., Mardis E.R., Clifton S.W., Warren W.C., Chinwalla A.T., Eddy S.R., Marra M.A., Ovcharenko I., Furey T.S., Miller W., Eichler E.E., Bork P., Suyama M., Torrents D., Waterston R.H., Wilson R.K.Nature 434:724-731(2005)

NCBI AND UNIPROT INFORMATION

NCBI GeneID	2191
UniProt Accession #	Q12884; O00199; Q53TP5; Q86Z29; Q99998; Q9UID4
Molecular Weight	112 kDa
NCBI Official Synonym Full Names	fibroblast activation protein alpha
NCBI Official Symbol	FAP
NCBI Official Synonym Symbols	FAPA; SIMP; DPPIV
NCBI Protein Information	prolyl endopeptidase FAP
UniProt Protein Name	Prolyl endopeptidase FAP

UniProt Gene Name	FAP
UniProt Synonym Gene Names	APCE
UniProt Entry Name	SEPR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/fap-recombinant-protein-e-coli/116218>