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**Product Data Sheet**


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Product Name: FAP Human  
 Cat. No.: GP26149  
 Batch No.: 1

**Product Data**

Purity >98% Source Sf9, Baculovirus cells.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms Prolyl endopeptidase FAP, 170 kDa melanoma membrane-bound gelatinase, Dipeptidyl peptidase FAP, Fibroblast activation protein alpha, FAPalpha, Gelatine degradation protease FAP, Integral membrane serine protease, Post-proline cleaving enzyme, Serine integral membrane protease, Surface-expressed protease, Seprase, SIMP, FAP

Amino Acid Sequence  
 ADPLRPSRVH NSEENTMRAL TLKDILNGTF SYKTFFPNWI SGQEYLHQSA  
 DNNIVLYNIE TGQSYTILSN RTMKSVNASN YGLSPDRQFV YLESDYSKLW  
 RYSYTATYYI YDLSNGEFVR GNELPRPIQY LCWSPVGSKL AYVYQNNIYL  
 KQRPGDPPFQ ITFNGRENKI FNGIPDWVYE EEMLATKYAL WWSPNGKFLA  
 YAEFNDDIP VIAYSYYGDE QYPR TINIPY PKAGAKNPVV RIFIIDTTYP  
 AYVGPQEVVP PAMIASSDYY FSWLTWVTDE RVCLQWLKRV QNVSVLSICD  
 FREDWQTDWC PKTQEHIEES RTGWAGGFFV STPVFSYDAI SYYKIFSDKD  
 GYKHIHYIKD TVENAIQITS GKWEAINIFR VTQDSL FYSS NEFEEYPGRR  
 NIYRISIGSY PPSKKCVTCH LRKERCQYYT ASFSDYAKYY ALVCYGP GIP  
 ISTLHDGR TD QEIKILEENK ELENALKNIQ LPKEEIKKLE VDEITLWYKM  
 ILPPQFDRSK KYPLLIQVYG GPCSQSVRSV FAVNWISYLA SKEGMVIALV  
 DGRGTAFQGD KLLYAVYRKL GVEVEDQIT AVRKFIEMGF IDEKRIAIWG  
 WSYGGYVSSL ALASGTGLFK CGI AVAPVSS WEYYASVYTE RFMGLPTKDD  
 NLEHYKNSTV MARAEYFRNV DYLLIHGTAD DNVHFQNSAQ IAKALVNAQV  
 DFQAMWYSDQ NHGLSGLSTN HLYTHMTHFL KQCFSLSDHH HHHH

Formulation The FAP solution (0.25mg/ml) contains 20% Glycerol and Phosphate-Buffered Saline (pH 7.4).

**Introduction**

DPP4 also called adenosine deaminase complexing protein-2, and T-cell activation

**Caution: Product has not been fully validated for medical applications. For research use only.**

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antigen CD26 is a serine exopeptidase and complex enzyme that is expressed on the surface of most cell types. DPPIV is an intrinsic membrane glycoprotein and a serine exopeptidase that cleaves X-proline dipeptides from the N-terminus of polypeptides. DPP4 plays a role in t-cell activation. DPP4 is associated with intracellular signal transduction, apoptosis and involved in tumor biology. There are at least 63 substrates which can bind specifically to DPP4 enzyme including growth factors, chemokines, neuro peptides. Furthermore, DPP4 plays a major role in glucose metabolism by cleaving incretins such as glucose-dependent insulintropic polypeptide (GIP) and GLP-1.

### Biological Activity

Specific activity > 5,000 pmol/min/ug. It is defined by the amount of enzyme that hydrolyzes 1.0 pmole of ZGP-AMC per minute at pH 7.5, at 37°C.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

FAP Human produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 744 amino acids (26-760aa) and having a molecular mass of 86.1 kDa. FAP is fused to a 6 amino acid His tag at C-terminus and purified by proprietary chromatographic techniques.

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