
Product Data Sheet

Product Name: DPP4 Human
 Cat. No.: GP21569
 Batch No.: 1

Product Data

Purity	>98%	Source	Insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CD26; ADABP; ADCP2; DPPIV; TP103; DPP4; Dipeptidyl peptidase 4; Dipeptidyl peptidase IV; DPP IV; T-cell activation antigen CD26; Adenosine deaminase complexing protein 2; CD26 antigen.		
Amino Acid Sequence	<p>ADPSRKTYTL TDYLNKNTYRL KLYSLRWISD HEYLYKQENN ILVFNAEYGN SSVFLENSTF DEFGHSINDY SISPDGQFIL LEYNYVKQWR HSYTASYDIY DLNKRQLITE ERIPNNTQWV TWSPVGHKLA YVWNNDIYVK IEPNLPSYRI TWTGKEDIY NGITDWVYEE EVFSAYSALW WSPNGTFLAY AQFNDTEVPL IEYSFYSDDES LQYPKTVRVP YPKAGAVNPT VKFFVNTDS LSSVTNATSI QITAPASMLI GDHYLCDVTW ATQERISLQW LRRIQNYSVM DICDYDESSG RWNCLVARQH IEMSTTGWVG RFRPSEPHFT LDGNSFYKII SNEEGYRHIC YFQIDKKDCT FITKGTWEVI GIEALTS DYLYSNEYKGM PGGRNLYKIQ LSDYTKVTCL SCELNPERCQ YYSVSFSKEA KYYQLRCSGP GLPLYTLHSS VNDKGLRVLE DNSALDKMLQ NVQMPSKKLD FIILNETKFW YQMILPPHFD KSKKYPLLLD VYAGPCSQKA DTVFRLNWAT YLASTENIIV ASFDGRGSGY QGDKIMHAIN RRLGTFEVED QIEAARQFSK MGFVDNKRIA IWGWSYGGYV TSMVLGSGSG VFKCGIAVAP VSRWEYDYSV YTERYMGLPT PEDNLDHYRN STVMSRAENF KQVEYLLIHG TADDNVHFQQ SAQISKALVD VGVDFQAMWY TDEDHGIASS TAHQHIYTHM SHFIKQCFSL PHHHHHH.</p>		
Formulation	DPP4 is formulated in 20mM Tris-HCl buffer pH-8, 100mM NaCl, 1mM EDTA and 10% glycerol.		

Introduction

DPP4 also called adenosine deaminase complexing protein-2, and T-cell activation antigen CD26 is a serine exopeptidase and complex enzyme that is expressed on the surface of most cell types. DPP4 is an intrinsic membrane glycoprotein and a serine

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

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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

>200 Units/mg.

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

DPPIV Human Recombinant produced in Insect cells is a single, glycosylated polypeptide chain containing 737 amino acids (39-766) and having a molecular mass of 85.4kDa. DPPIV is fused to a 6 His Tag at C-terminus and purified using conventional chromatography techniques.

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