83103 Avenue 48, Ste.1B #204
Coachella, CA 92236 USA
Phone : +1.6268339877
Email : info@cali-bio.com

California Bioscience

Product Datasheet

Product Name	Dipeptidyl-Peptidase 4 Human Recombinant
Cata No	CB501384
Source	*High-5 cells*
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.

Description

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. 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 insulinotropic polypeptide (GIP) and glucagon-like peptide-1 (GLP-1).

DPPIV Human Recombinant produced in High-5 cells is a single, glycosylated polypeptide chain containing 746 amino acids (39-766) and having a molecular mass of 86.4 kDa.

DPPIV is fused to His Tag at C-terminus and purified using conventional chromatography techniques.

Physical Appearance

Sterile Filtered colorless solution.

Biological Activity

20 Units/mg

Purity

Greater than 95.0% as determined by Analysis by SDS-PAGE.

On SDS-PAGE under denatured condition, apparent molecular weight of glycosylated DPP4 will migrate at approximately 90kDa

Formulation

DPP4 is formulated in 20mM Tris-HCl pH-8, 100mM NaCl, 1mM EDTA and 10% glycerol.

Stability

DPP4 although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent freeze-thaw cycles.

Sequence

ADP-SRKTYTLTDYLKNTYRLKLYSLRWISDHEYL
YKQENN
ILVFNAEYGNSSVFLENSTFDEFGHSINDYSISPD
GQ
FILLEYNYVKQWRHSYTASYDIYDLNKRQLITEERI
P
NNTQWVTWSPVGHKLAYVWNNDIYVKIEPNLPSY
RIT
WTGKEDIIYNGITDWVYEEEVFSAYSALWWSPNG
TFL
AYAQFNDTEVPLIEYSFYSDESLQYPKTVRVPYPK
AG

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AVNPTVKFFVVNTDSLSSVTNATSIQITAPASMLIGD
HYLCDVTWATQERISLQWLRRIQNYSVMDICDYDESS
GRWNCLVARQHIEMSTTGWVGRFRPSEPHFTLDGNSF
YKIISNEEGYRHICYFQIDKKDCTFITKGTWEVIGIEALTSDYLYYISNEYKGMPGGRNLYKIQLSDYTKVTCL
SCELNPERCQYYSVSFSKEAKYYQLRCSGPGLPLYTL
HSSVNDKGLRVLEDNSALDKMLQNVQMPSKKLDFIIL
NETKFWYQMILPPHFDKSKKYPLLLDVYAGPCSQKAD
TVFRLNWATYLASTENVASFDGRFSGYQGDKIMHA
INRRLGTFEVEDQIEAARQFSKMGFVDNKRIAIWGWS
YGGYVTSMVLGSGSGVFKCGIAVAPVSRWEYYDSVYT
ERYMGLPTPEDNLDHYRNSTVMSRAENFKQVEYLLIH
GTADDNVHFQQSAQISKALVDVGVDFQAMWYTDEDHG
IASSTAHQHIYTHMSHFIKQCFSLP-SGRLVPRGSHHHHHH