

DATASHEET

Version 20181206

DPP4/CD26, Human

Cat. No.: Z03324-10

Size: 10.0 ug

Synonyms: DPP4; CD26; DPPIV

Description:

Dipeptidyl peptidase-4 (DPP4), also known as adenosine deaminase complexing protein 2 or CD26 (cluster of differentiation 26), is an antigenic enzyme expressed on the surface of most cell types and is associated with immune regulation, signal transduction and apoptosis. It is an intrinsic membrane glycoprotein and a serine exopeptidase that cleaves X-proline dipeptides from the N-terminus of polypeptides. DPP4 is related to attractin, FAP, DPP8 and DPP9. DPP4 plays a major role in glucose metabolism. It is responsible for the degradation of incretins such as GLP-1. DPP4 plays an important role in tumor biology, and is useful as a marker for various cancers, with its levels either on the cell surface or in the serum increased in some neoplasms and decreased in others. DPP-4 binds the enzyme adenosine deaminase specifically and with high affinity, however the significance of this interaction has yet to be established.

Recombinant Human DPP4/CD26 produced in CHO cells is a polypeptide chain containing 744 amino acids. A fully biologically active molecule, rhDPP4/CD26 has a molecular mass of 110 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Amino Acid Sequence:

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00001  NKGTTDATAD SRKTYTLTDY LKNTYRLKLY SLRWISDHEY
00041  LYKQENNILV FNAEYGNSSV FLENSTFDEF GHSINDYSIS
00081  PDGQFILLE NYVKQWRHSY TASYDIYDLN KRQLITEERI
00121  PNNTQWVTWS PVGHKLAYVW NNDIYVKIEP NLPSYRITWT
00161  GKEDIIYNGI TDWVYEEVFV SAYSALWWSF NGTFLAYAQF
00201  NDETVPLIEY SFYSDSLQY PKTVRVPYPK AGAVNPTVKF
00241  FVVNTDSLSS VTNATSIQIT APASMLIGDH YLCDVTWATQ
00281  ERISLQWLRR IQNYSVMDIC DYDESSGRWN CLVARQHIEH
00321  STTGWVGRFR PSEPHFTLDG NSFYKISNE EGYRHICYFQ
00361  IDKKDCTFIT KGTWEVIGIE ALTSYLYYI SNEYKMPGG
00401  RNLYKIQLSL YTKVTCLSCF LNPERCQYYS VSFSEAKYY
00441  QLRCSGGLP LYTLHSSVND KGLRVLEDNS ALDKMLQNVQ
00481  MPSKKLDFII LNETKFWYQM ILPPHFDKSK KYPLLLDVYA
00521  GPCSQKADTV FRLNWATYLA STENIIVASF DGRSGYQGD
00561  KIMHAINRRL GTFEVEDQIE AARQFSKMGF VDNKRIAIWG
00601  WSYGGYVTSM VLGSGSGVFK CGIAVAPVSR WEYDYSVYTE
00641  RYMGLPTPED NLDHYRNVST MSRAENFKQV EYLLIHGTAD
00681  DNVHFQQAQ ISKALVDVGV DFQAMWYTDE DHGIASSTAH
00721  QHIYTHMSHF IKQCFSLPHH HHHH
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Source: CHO

Biological Activity: The specific activity is > 2000 pmol/min/μg, measured by DPP4's ability to cleave the fluorogenic peptide substrate GP-AMC (Enzo, Catalog: P189). Assay buffer: 25 mM Tris-HCl, pH 8.0

Molecular Weight: 110 kDa, observed by reducing SDS-PAGE.

Formulation: Liquid after a 0.2 μm filtered solution in 50 mM NaOAc, 50 mM NaCl, 20% Glycerol, pH 6.0.

Purity: > 95% as analyzed by SDS-PAGE.

Endotoxin Level: < 0.2 EU/μg, determined by LAL method.

Storage: Recombinant Human DPP4/CD26 remains stable up to 6 months at lower than -70°C from date of receipt under sterile conditions. Up to 3 months at lower than -70°C under sterile conditions after opening. Avoid repeated freeze-thaw cycles.