

CD26/Dipeptidyl Peptidase 4 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P75428
Synonyms:	Dipeptidyl peptidase 4; ADABP; ADCP-2; DPP IV; TP103; CD26; DPP4
Species:	Mouse
Source:	HEK293
Accession:	P28843 (S29-H760)
Gene ID:	13482
Molecular Weight:	Approximately 85.9 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background

The CD26/Dipeptidyl Peptidase 4 protein serves as a cell surface glycoprotein receptor crucial for the costimulatory signal essential in T-cell receptor (TCR)-mediated T-cell activation. Functioning as a positive regulator of T-cell coactivation, CD26 binds to ADA, CAV1, IGF2R, and PTPRC. Its interactions with CAV1 and CARD11 induce T-cell proliferation and NF-kappa-B activation in a T-cell receptor/CD3-dependent manner. Additionally, CD26's association with ADA regulates lymphocyte-epithelial cell adhesion, while its partnership with FAP contributes to pericellular proteolysis of the extracellular matrix (ECM), facilitating the migration and invasion of endothelial cells into the ECM. CD26 may also play a role in promoting lymphatic endothelial cell adhesion, migration, and tube formation. When overexpressed, CD26 enhances cell proliferation, a process inhibited by GPC3. Beyond its coactivation role, CD26 functions as a serine exopeptidase with dipeptidyl peptidase activity, regulating various physiological processes by cleaving peptides in the circulation, including chemokines, mitogenic growth factors, neuropeptides, and peptide hormones, specifically targeting peptides with unsubstituted N-termini when the penultimate residue is proline.

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

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