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DPP4
Recombinant Human Dipeptidyl Peptidase 4, His Tag

Catalog No.	CRG508A	**Quantity:**	10 μg
	CRG508B		1.0 mg

Alternate Names: Dipeptidyl peptidase 4, DPPIV, T-cell activation antigen CD26

Description: Dipeptidyl Peptidase 4 is a lymphocyte cell surface antigen which is increased during T-cell activation and is also expressed in other tissues, such as placenta, kidney, etc. It is an atypical serine protease which has been implicated in a variety of biological functions including diabetes, rheumatoid arthritis, T-cell activation, cell-to-cell adhesion, and recently in HIV infection. DPP4 cleaves X-proline dipeptides from the N-terminus of polypeptides. There are over 63 substrates which can bind specifically to DPP4 enzyme including growth factors, chemokines, neuropeptides. DPP4 plays a major role in glucose metabolism by cleaving incretins such as glucose-dependent insulinotropic polypeptide (GIP) and GLP-1.

UniProt ID: P27487

Source: Insect cells

Molecular Weight: 85.4 kDa (737 aa, 39-766)

Formulation: Sterile filtered 20 mM Tris-HCl, pH 8.0, 100 mM NaCl, 1 mM EDTA, 10% glycerol

Purity: ≥ 95% by SDS-PAGE

Tag: C-terminal 6X His

Biological Activity: One unit will hydrolyze 1 μmole of p-nitroaniline per minute at pH8.0 at 37°C using 1mM of Gly-Pro p-nitroanilde as a substrate.

Specific Activity: >200 Units/mg

Amino Acid Sequence:
ADPSRKTYTL TDYLKNTYRL KLYSLRWISD HEYLYKQENN ILVFNAEYGN
SSVFLENSTF DEFGHSINDY SISPDGQFIL LEYNYVKQWR HSYTASYDIY
DLNKRQLITE ERIPNNTQWV TWSPVGHKLA YVWNNDIYVK IEPNLPSYRI
TWTGKEDIIY NGITDWVYEE EVFSAYSALW WSPNGTFLAY AQFNDTEVPL
IEYSFYSDES LQYPKTVRVP YPKAGAVNPT VKFFVVNTDS LSSVTNATSI
QITAPASMLI GDHYLCDVTW ATQERISLQW LRRIQNYSVM DICDYDESSG
RWNCLVARQH IEMSTTGWVG RFRPSEPHFT LDGNSFYKII SNEEGYRHIC
YFQIDKKDCT FITKGTWEVI GIEALTSDYL YYISNEYKGM PGGRNLYKIQ
LSDYTKVTCL SCELNPERCQ YYSVSFSKEA KYYQLRCSGP GLPLYTLHSS
VNDKGLRVLE DNSALDKMLQ NVQMPSKKLD FIILNETKFW YQMILPPHFD
KSKKYPLLLD VYAGPCSQKA DTVFRLNWAT YLASTENIIV ASFDGRGSGY
QGDKIMHAIN RRLGTFEVED QIEAARQFSK MGFVDNKRIA IWGWSYGGYV
TSMVLGSGSG VFKCGIAVAP VSRWEYYDSV YTERYMGLPT PEDNLDHYRN
STVMSRAENF KQVEYLLIHG TADDNVHFQQ SAQISKALVD VGVDFQAMWY
TDEDHGIASS TAHQHIYTHM SHFIKQCFSL PHHHHHH.

Storage & Stability: Store unopened for 2-4 weeks at 2-8°C or up to 1 year at -20°C to -80°C. Recommended to add a carrier protein (0.1% HSA or BSA) and prepare aliquots for long term storage at -20°C to -80°C.**Avoid repeated freeze-thaw cycles.**

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