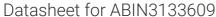
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DPP4 Protein (AA 37-760) (rho-1D4 tag)





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Overview

Quantity:	1 mg
Target:	DPP4
Protein Characteristics:	AA 37-760
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DPP4 protein is labelled with rho-1D4 tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

SRRTYSLADY LKSTFRVKSY SLWWVSDFEY LYKQENNILL LNAEHGNSSI FLENSTFESF
GYHSVSPDRL FVLLEYNYVK QWRHSYTASY NIYDVNKRQL ITEEKIPNNT QWITWSPEGH
KLAYVWKNDI YVKVEPHLPS HRITSTGEEN VIYNGITDWV YEEEVFGAYS ALWWSPNNTF
LAYAQFNDTG VPLIEYSFYS DESLQYPKTV WIPYPKAGAV NPTVKFFIVN IDSLSSSSSA
APIQIPAPAS VARGDHYLCD VVWATEERIS LQWLRRIQNY SVMAICDYDK INLTWNCPSE
QQHVEMSTTG WVGRFRPAEP HFTSDGSSFY KIISDKDGYK HICHFPKDKK DCTFITKGAW
EVISIEALTS DYLYYISNQY KEMPGGRNLY KIQLTDHTNV KCLSCDLNPE RCQYYAVSFS
KEAKYYQLGC WGPGLPLYTL HRSTDHKELR VLEDNSALDR MLQDVQMPSK KLDFIVLNET
RFWYQMILPP HFDKSKKYPL LLDVYAGPCS QKADASFRLN WATYLASTEN IIVASFDGRG
SGYQGDKIMH AINRRLGTLE VEDQIEAARQ FVKMGFVDSK RVAIWGWSYG GYVTSMVLGS
GSGVFKCGIA VAPVSRWEYY DSVYTERYMG LPIPEDNLDH YRNSTVMSRA EHFKQVEYLL
IHGTADDNVH FQQSAQISKA LVDAGVDFQA MWYTDEDHGI ASSTAHQHIY SHMSHFLQQC FSLH

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Mouse Dpp4 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:

- 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
- 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Product Details Protein is endotoxin-free. Endotoxin Level: Grade: Crystallography grade Target Details DPP4 Target: Dpp4 (DPP4 Products) Alternative Name: Background: Cell surface glycoprotein receptor involved in the costimulatory signal essential for T-cell receptor (TCR)-mediated T-cell activation. Acts as a positive regulator of T-cell coactivation, by binding at least ADA, CAV1, IGF2R, and PTPRC. Its binding to CAV1 and CARD11 induces T-cell proliferation and NF-kappa-B activation in a T-cell receptor/CD3-dependent manner. Its interaction with ADA also regulates lymphocyte-epithelial cell adhesion. In association with FAP is involved in the pericellular proteolysis of the extracellular matrix (ECM), the migration and invasion of endothelial cells into the ECM. May be involved in the promotion of lymphatic endothelial cells adhesion, migration and tube formation. When overexpressed, enhanced cell proliferation, a process inhibited by GPC3. Acts also as a serine exopeptidase with a dipeptidyl peptidase activity that regulates various physiological processes by cleaving peptides in the circulation, including many chemokines, mitogenic growth factors, neuropeptides and peptide hormones. Removes N-terminal dipeptides sequentially from polypeptides having unsubstituted N-termini provided that the penultimate residue is proline. {ECO:0000250|UniProtKB:P27487}. Molecular Weight: 84.9 kDa Including tag. UniProt: P28843 Pathways: Peptide Hormone Metabolism, Regulation of Leukocyte Mediated Immunity **Application Details Application Notes:** In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though. Protein has not been tested for activity yet. In cases in which it is highly likely that the Comment: recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible

options with you in detail to assure that you receive your protein of interest.

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

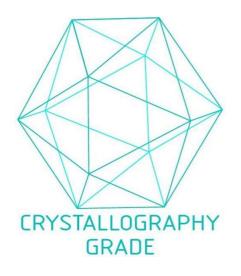


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process