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DPP8 Protein (AA 1-892) (His tag)





Overview

Quantity:	1 mg
Target:	DPP8
Protein Characteristics:	AA 1-892
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DPP8 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

MKIPSGRCNM AAAMETEQLG VEIFETAECE EGNGESQDRP KLEPFYVERY SWSQLKKLLA
DTRKYHGYMM AKAPHDFMFV KRTDPDGPHS DRVYYLAMSG ENRENTLFYS EIPKTINRAA
VLMLSWKPLL DLFQATLDYG MYSREEELLR ERKRIGTVGI AAYDYHPGSG TFLFQAGSGI
YHIKDGGPHG FTQQPLRPNL VETSCPNIRM DPKLCPADPD WIAFIHSNDI WISNLVTREE
RRITYVHNEL ANMEEDPRSA GVATFVLQEE FDRYSGYWWC PQAERTPSGG KILRILYEEN
DESEVEIIHV TSPMLETRRA DSFRYPKTGT ANPKVTFKMS EIVVDAAGGI IDVIDKELVQ
PFEILFEGVE YIARAGWTPE GKHAWSILLD RSQTHLQIVL ISPELFIPVE DDAMDRQRLI
ESVPDSVTPL IIYEETTDIW INIHDIFHVF PQTHEDEIEF IFASECKTGF RHLYKITSIL KESKYKRSSG
GLPAPSDFKC PIKEEITITS GEWEVLGRHG SNIWVDEARK LVYFEGTKDS PLEHHLYVTS
YANPGEVVRL TDRGYSHSCC LSRHCDFFIS KYSNQKNPHC VSLYKLSSPE DDPVHKTKEF
WATILDSAGP LPDYTPPEIF SFESTTGFTL YGMLYKPHDL QPGKKYPTVL FIYGGPQVQL
VNNRFKGVKY FRLNTLASLG YVVVVIDNRG SCHRGLKFEG AFKYKMGQIE IDDQVEGLQY

LASQYDFIDL DRVGIHGWSY GGYLSLMALM QRSDIFRVAI AGAPVTLWIF YDTGYTERYM GHPDQNEQGY YLGSVAMQAE KFPSEPNRLL LLHGFLDENV HFAHTSILLS FLVRAGKPYD LQIYPQERHS IRVPESGEHY ELHLLHYLQE NLGSRIAALK VI

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 Dpp8 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 protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

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

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:

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

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. 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 Endotoxin Level: Protein is endotoxin free. Grade: Crystallography grade Target Details DPP8 Target: Alternative Name: Dpp8 (DPP8 Products) Background: Dipeptidyl peptidase that cleaves off N-terminal dipeptides from proteins having a Pro or Ala residue at position 2. May play a role in T-cell activation and immune function (By similarity). {ECO:0000250}. Molecular Weight: 103.1 kDa Including tag. UniProt: Q80YA7 **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. Comment: Protein has not been tested for activity yet. In cases in which it is highly likely that the 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. For Research Use only Restrictions: 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:

Expiry Date:

Storage Comment:

-80 °C

Store at -80°C.

Unlimited (if stored properly)

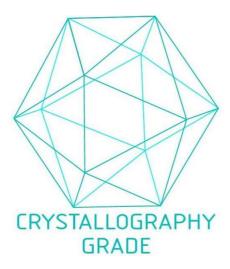


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process