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Midkine Protein (AA 21-143) (His tag)



Overview

Quantity:	1 mg
Target:	Midkine (MDK)
Protein Characteristics:	AA 21-143
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Midkine protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)
Product Details	
Sequence:	VAKKKDKVKK GGPGSECAEW AWGPCTPSSK DCGVGFREGT CGAQTQRIRC RVPCNWKKEF
	GADCKYKFEN WGACDGGTGT KVRQGTLKKA RYNAQCQETI RVTKPCTPKT KAKAKAKKGK GKD
	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. Human MDK 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:

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.
- 2. 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

Endotoxin Level:

Protein is endotoxin free.

Grade:

Crystallography grade

Target Details

Target:	Midkine (MDK)
Alternative Name:	MDK (MDK Products)
Background:	Developmentally regulated, secreted growth factor homologous to pleiotrophin (PTN), which
	has heparin binding activity. Binds anaplastic lymphoma kinase (ALK) which induces ALK
	activation and subsequent phosphorylation of the insulin receptor substrate (IRS1), followed by
	the activation of mitogen-activated protein kinase (MAPK) and PI3-kinase, and the induction of
	cell proliferation. Involved in neointima formation after arterial injury, possibly by mediating

Target Details

Expiry Date:

leukocyte recruitment. Also involved in early fetal adrenal gland development (By similarity). {ECO:0000250, ECO:0000269 PubMed:12122009, ECO:0000269 PubMed:1768439}.
14.4 kDa Including tag.
P21741
RTK Signaling, M Phase, Skeletal Muscle Fiber Development
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 guarantee though.
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
Liquid
100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Avoid repeated freeze-thaw cycles.
-80 °C
Store at -80°C.

Unlimited (if stored properly)