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KLF4 Protein (AA 1-483) (His tag)



Image



Overview

Quantity:	1 mg
Target:	KLF4
Protein Characteristics:	AA 1-483
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This KLF4 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:

MRQPPGESDM AVSDALLPSF STFASGPAGR EKTLRPAGAP TNRWREELSH MKRLPPLPGR
PYDLAATVAT DLESGGAGAA CSSNNPALLA RRETEEFNDL LDLDFILSNS LTHQESVAAT
VTTSASASSS SSPASSGPAS APSTCSFSYP IRAGGDPGVA ASNTGGGLLY SRESAPPPTA
PFNLADINDV SPSGGFVAEL LRPELDPVYI PPQQPQPPGG GLMGKFVLKA SLTTPGSEYS
SPSVISVSKG SPDGSHPVVV APYSGGPPRM CPKIKQEAVP SCTVSRSLEA HLSAGPQLSN
GHRPNTHDFP LGRQLPTRTT PTLSPEELLN SRDCHPGLPL PPGFHPHPGP NYPPFLPDQM
QSQVPSLHYQ ELMPPGSCLP EEPKPKRGRR SWPRKRTATH TCDYAGCGKT YTKSSHLKAH
LRTHTGEKPY HCDWDGCGWK FARSDELTRH YRKHTGHRPF QCQKCDRAFS RSDHLALHMK
RHF

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 Klf4 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.
- 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:	KLF4
Alternative Name:	Klf4 (KLF4 Products)
Background:	Transcription factor, can act both as activator and as repressor. Binds the 5'-CACCC-3' core
	sequence. Binds to the promoter region of its own gene and can activate its own transcription.
	Regulates the expression of key transcription factors during embryonic development. Plays an
	important role in maintaining embryonic stem cells, and in preventing their differentiation.
	Required for establishing the barrier function of the skin and for postnatal maturation and
	maintenance of the ocular surface. Involved in the differentiation of epithelial cells and may
	also function in skeletal and kidney development. Contributes to the down-regulation of
	p53/TP53 transcription (By similarity). {ECO:0000250, ECO:0000269 PubMed:10431239,
	ECO:0000269 PubMed:10556311, ECO:0000269 PubMed:15358627,
	ECO:0000269 PubMed:16954384, ECO:0000269 PubMed:17060454,
	ECO:0000269 PubMed:19816951, ECO:0000269 PubMed:20071344}.
Molecular Weight:	52.8 kDa Including tag.
UniProt:	Q60793
Pathways:	Peptide Hormone Metabolism, Stem Cell Maintenance
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:	though. Protein has not been tested for activity yet. In cases in which it is highly likely that the
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Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

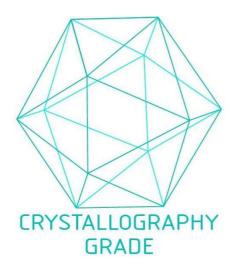


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process