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DDR2 Protein (AA 22-854) (rho-1D4 tag)





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Overview

Quantity:	1 mg
Target:	DDR2
Protein Characteristics:	AA 22-854
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DDR2 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:

KAQVNPAICR YPLGMSGGHI PDEDITASSQ WSESTAAKYG RLDSEEGDGA WCPEIPVQPD
DLKEFLQIDL RTLHFITLVG TQGRHAGGHG IEFAPMYKIN YSRDGSRWIS WRNRHGKQVL
DGNSNPYDVF LKDLEPPIVA RFVRLIPVTD HSMNVCMRVE LYGCVWLDGL VSYNAPAGQQ
FVLPGGSIIY LNDSVYDGAV GYSMTEGLGQ LTDGVSGLDD FTQTHEYHVW PGYDYVGWRN
ESATNGFIEI MFEFDRIRNF TTMKVHCNNM FAKGVKIFKE VQCYFRSEAS EWEPTAVYFP
LVLDDVNPSA RFVTVPLHHR MASAIKCQYH FADTWMMFSE ITFQSDAAMY NNSGALPTSP
MAPTTYDPML KVDDSNTRIL IGCLVAIIFI LLAIIVIILW RQFWQKMLEK ASRRMLDDEM
TVSLSLPSES SMFNNNRSSS PSEQESNSTY DRIFPLRPDY QEPSRLIRKL PEFAPGEEES
GCSGVVKPAQ PNGPEGVPHY AEADIVNLQG VTGGNTYCVP AVTMDLLSGK DVAVEEFPRK
LLAFKEKLGE GQFGEVHLCE VEGMEKFKDK DFALDVSANQ PVLVAVKMLR ADANKNARND
FLKEIKIMSR LKDPNIIRLL AVCITEDPLC MITEYMENGD LNQFLSRHEP LSSCSSDATV
SYANLKFMAT QIASGMKYLS SLNFVHRDLA TRNCLVGKNY TIKIADFGMS RNLYSGDYYR

IQGRAVLPIR WMSWESILLG KFTTASDVWA FGVTLWETFT FCQEQPYSQL SDEQVIENTG EFFRDQGRQI YLPQPALCPD SVYKLMLSCW RRETKHRPSF QEIHLLLLQQ GAE

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 Ddr2 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.

Product Details Sterility: 0.22 µm filtered Endotoxin Level: Protein is endotoxin-free. Grade: Crystallography grade **Target Details** DDR2 Target: Alternative Name: Ddr2 (DDR2 Products) Background: Tyrosine kinase that functions as cell surface receptor for fibrillar collagen and regulates cell differentiation, remodeling of the extracellular matrix, cell migration and cell proliferation. Required for normal bone development. Regulates osteoblast differentiation and chondrocyte maturation via a signaling pathway that involves MAP kinases and leads to the activation of the transcription factor RUNX2. Regulates remodeling of the extracellular matrix by up-regulation of the collagenases MMP1, MMP2 and MMP13, and thereby facilitates cell migration and tumor cell invasion. Promotes fibroblast migration and proliferation, and thereby contributes to cutaneous wound healing. {ECO:0000269|PubMed:11375938, ECO:0000269|PubMed:11723120, ECO:0000269|PubMed:11884411, ECO:0000269|PubMed:15509586, ECO:0000269|PubMed:19681157}. Molecular Weight: 95.4 kDa Including tag. UniProt: Q62371 Pathways: **RTK Signaling Application Details** Application Notes: In addition to the applications listed above we expect the protein to work for functional studies

Application Notes.	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.
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

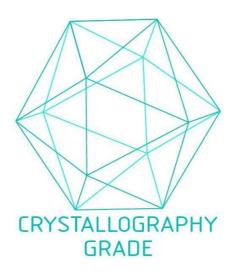


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process