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### GRP94 Protein (AA 22-802) (His tag)





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#### Overview

Quantity:	1 mg
Target:	GRP94 (HSP90B1)
Protein Characteristics:	AA 22-802
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GRP94 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

#### **Product Details**

Sequence:

DDEVDVDGTV EEDLGKSREG SRTDDEVVQR EEEAIQLDGL NASQIRELRE KSEKFAFQAE
VNRMMKLIIN SLYKNKEIFL RELISNASDA LDKIRLISLT DENALAGNEE LTVKIKCDKE
KNLLHVTDTG VGMTREELVK NLGTIAKSGT SEFLNKMTEA QEDGQSTSEL IGQFGVGFYS
AFLVADKVIV TSKHNNDTQH IWESDSNEFS VIADPRGNTL GRGTTITLVL KEEASDYLEL
DTIKNLVRKY SQFINFPIYV WSSKTETVEE PLEEDEAAKE EKEESDDEAA VEEEEEEKKP
KTKKVEKTVW DWELMNDIKP IWQRPSKEVE EDEYKAFYKS FSKESDDPMA YIHFTAEGEV
TFKSILFVPT SAPRGLFDEY GSKKSDYIKL YVRRVFITDD FHDMMPKYLN FVKGVVDSDD
LPLNVSRETL QQHKLLKVIR KKLVRKTLDM IKKIADEKYN DTFWKEFGTN IKLGVIEDHS
NRTRLAKLLR FQSSHHSTDI TSLDQYVERM KEKQDKIYFM AGSSRKEAES SPFVERLLKK
GYEVIYLTEP VDEYCIQALP EFDGKRFQNV AKEGVKFDES EKTKESREAT EKEFEPLLNW
MKDKALKDKI EKAVVSQRLT ESPCALVASQ YGWSGNMERI MKAQAYQTGK DISTNYYASQ
KKTFEINPRH PLIRDMLRRI KEDEDDKTVM DLAVVLFETA TLRSGYLLPD TKAYGDRIER

Characteristics:

MLRLSLNIDP EAQVEEEPEE EPEDTSEDAE DSEQDEGEEM DAGTEEEEEE TEKESTEKDE L Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us. • Made in Germany - from design to production - by highly experienced protein experts. · Mouse Hsp90b1 Protein (raised in E. Coli) 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 bacterial culture:

- 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

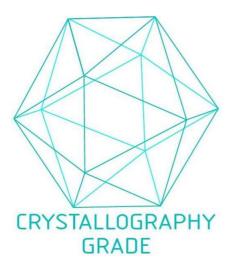
Endotoxin Level: Protein is endotoxin free.

## **Product Details** Grade: Crystallography grade **Target Details** GRP94 (HSP90B1) Target: Hsp90b1 (HSP90B1 Products) Alternative Name Background: Molecular chaperone that functions in the processing and transport of secreted proteins. When associated with CNPY3, required for proper folding of Toll-like receptors. Functions in endoplasmic reticulum associated degradation (ERAD). Has ATPase activity (By similarity). {ECO:0000250, ECO:0000269|PubMed:20865800}. Molecular Weight: 91.1 kDa Including tag. UniProt: P08113 Pathways: Thyroid Hormone Synthesis, Activation of Innate immune Response, ER-Nucleus Signaling, Toll-Like Receptors Cascades **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. 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. -80 °C Storage: Store at -80°C. Storage Comment:

Expiry Date:

Unlimited (if stored properly)

**Images** 



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