Datasheet for ABIN3132941

IL1R1 Protein (AA 20-338) (His tag)

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Overview

Quantity:	1 mg
Target:	IL1R1
Protein Characteristics:	AA 20-338
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL1R1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	LEIDVCTEYP NQIVLFLSVN EIDIRKCPLT PNKMHGDTII WYKNDSKTPI SADRDSRIHQ QNEHLWFVPA KVEDSGYYYC IVRNSTYCLK TKVTVTVLEN DPGLCYSTQA TFPQRLHIAG DGSLVCPYVS YFKDENNELP EVQWYKNCKP LLLDNVSFFG VKDKLLVRNV AEEHRGDYIC RMSYTFRGKQ YPVTRVIQFI TIDENKRDRP VILSPRNETI EADPGSMIQL ICNVTGQFSD LVYWKWNGSE IEWNDPFLAE DYQFVEHPST KRKYTLITTL NISEVKSQFY RYPFICVVKN TNIFESAHVQ LIYPVPDFK **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 Il1r1 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).

Product Details

	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:	IL1R1
Alternative Name:	Il1r1 (IL1R1 Products)
Background:	Receptor for IL1A, IL1B and IL1RN. After binding to interleukin-1 associates with the corecptor

Target Details

	IL1RAP to form the high affinity interleukin-1 receptor complex which mediates interleukin-1-dependent activation of NF-kappa-B, MAPK and other pathways. Signaling involves the recruitment of adapter molecules such as TOLLIP, MYD88, and IRAK1 or IRAK2 via the respective TIR domains of the receptor/coreceptor subunits. Binds ligands with comparable affinity and binding of antagonist IL1RN prevents association with IL1RAP to form a signaling complex (By similarity). {ECO:0000250}., Isoform 2: Unable to mediate canonical IL-1 signaling. Cooperates with IL1RAP isoform 3 to mediate IL1B-induced neuronal activity including IL1B-potentiated NMDA-induced calcium influx mediated by Akt kinase activation. {ECO:0000269|PubMed:22778412}.
Molecular Weight:	38.2 kDa Including tag.
UniProt:	P13504
Pathways:	NF-kappaB Signaling, Carbohydrate Homeostasis, Cancer Immune Checkpoints

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