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Datasheet for ABIN3091968 CYP4F2 Protein (AA 5-520) (His tag)

Image



Overview

| Quantity: | 1 mg |
|-------------------------------|--|
| Target: | CYP4F2 |
| Protein Characteristics: | AA 5-520 |
| Origin: | Human |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This CYP4F2 protein is labelled with His tag. |
| Application: | SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA |

Product Details

| | TLLRFRVLPD HTEPRRKPEL VLRAEGGLWL RVEPLS |
|-----------|--|
| | REPKEIEWDD LAHLPFLTMC MKESLRLHPP VPVISRHVTQ DIVLPDGRVI PKGIICLISV FGTHHNPAVW PDPEVYDPFR FDPENIKERS PLAFIPFSAG PRNCIGQTFA MAEMKVVLAL |
| | SKDEDGKKLS DEDIRAEADT FMFEGHDTTA SGLSWVLYHL AKHPEYQERC RQEVQELLKD |
| | FLYYLTPDGQ RFRRACRLVH DFTDAVIQER RRTLPSQGVD DFLQAKAKSK TLDFIDVLLL |
| | GSACLDMFEH ISLMTLDSLQ KCVFSFDSHC QEKPSEYIAA ILELSALVSK RHHEILLHID |
| | YSFLEPWLGD GLLLSAGDKW SRHRRMLTPA FHFNILKPYM KIFNESVNIM HAKWQLLASE |
| | GMVNPTEEGM RVLTQLVATY PQGFKVWMGP ISPLLSLCHP DIIRSVINAS AAIAPKDKFF |
| Sequence: | SLSWLGLWPV AASPWLLLLL VGASWLLAHV LAWTYAFYDN CRRLRCFPQP PRRNWFWGHQ |

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| Product Details | |
|------------------|---|
| Characteristics: | Made in Germany - from design to production - by highly experienced protein experts. Human CYP4F2 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: |
| | 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 |

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| Target Details | |
|---------------------|---|
| Target: | CYP4F2 |
| Alternative Name: | CYP4F2 (CYP4F2 Products) |
| Background: | Omega-hydroxylase that oxidizes a variety of structurally unrelated compounds, including |
| | steroids, fatty acids and xenobiotics. Plays a key role in vitamin K catabolism by mediating |
| | omega-hydroxylation of vitamin K1 (phylloquinone), and menaquinone-4 (MK-4), a form of |
| | vitamin K2. Hydroxylation of phylloquinone and MK-4 probably regulates blood coagulation |
| | (PubMed:19297519, PubMed:24138531). Also shows arachidonic acid omega-hydroxylase |
| | activity in kidney, by mediating conversion of arachidonic acid to 20-hydroxyeicosatetraenoic |
| | acid (20-HETE), possibly influencing blood pressure control (PubMed:10660572, |
| | PubMed:17341693, PubMed:18574070). Also acts as a leukotriene-B(4) omega-hydroxylase by |
| | mediating conversion of leukotriene-B(4) (LTB4) to its omega-hydroxylated metabolite 20- |
| | hydroxyleukotriene-B(4) (20-OH LTB4) (PubMed:8026587, PubMed:9799565). |
| | {ECO:0000269 PubMed:10660572, ECO:0000269 PubMed:17341693, |
| | ECO:0000269 PubMed:18574070, ECO:0000269 PubMed:19297519, |
| | ECO:0000269 PubMed:24138531, ECO:0000269 PubMed:8026587, |
| | ECO:0000269 PubMed:9799565}. |
| Molecular Weight: | 60.3 kDa Including tag. |
| UniProt: | P78329 |
| Pathways: | Monocarboxylic Acid Catabolic Process |
| 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: | 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 | |
| - landing | |
| Format: | Liquid |

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| Handling | | |
|------------------|--|--|
| 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

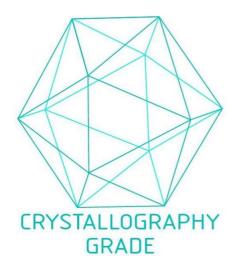


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process