Datasheet for ABIN7554137

# EPHX2 Protein (AA 1-555) (His tag)

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## Overview

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| Quantity: | 1 mg |
| Target: | EPHX2 |
| Protein Characteristics: | AA 1-555 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This EPHX2 protein is labelled with His tag. |
| Application: | Western Blotting (WB), SDS-PAGE (SDS) |

## Product Details

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| Purpose: | Custom-made recombinat EPHX2 Protein expressed in mammalien cells. |
| Sequence: | MTLRAAVFDL DGVLALPAVF GVLGRTEEAL ALPRGLLNDA FQKGGPEGAT TRLMKGEITL SQWIPLMEEN CRKCSETAKV CLPKNFSIKE IFDKAISARK INRPMLQAAL MLRKKGFTTA ILTNTWLDDR AERDGLAQLM CELKMHFDFL IESCQVGMVK PEPQIYKFLL DTLKASPSEV VFLDDIGANL KPARDLGMVT ILVQDTDTAL KELEKVTGIQ LLNTPAPLPT SCNPSDMSHG YVTVKPRVRL HFVELGSGPA VCLCHGFPES WYSWRYQIPA LAQAGYRVLA MDMKGYGESS APPEIEEYCM EVLCKEMVTF LDKLGLSQAV FIGHDWGGML VWYMALFYPE RVRAVASLNT PFIPANPNMS PLESIKANPV FDYQLYFQEP GVAEAELEQN LSRTFKSLFR ASDESVLSMH KVCEAGGLFV NSPEEPSLSR MVTEEEIQFY VQQFKKSGFR GPLNWYRNME RNWKWACKSL GRKILIPALM VTAEKDFVLV PQMSQHMEDW IPHLKRGHIE DCGHWTQMDK PTEVNQILIK WLDSDARNPP VVSKM **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make** |

## Product Details

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| | **another tag necessary. In case you have a special request, please contact us.** |
| Characteristics: | Key Benefits:<br>• Made to order protein - from design to production - by highly experienced protein experts.<br>• Protein expressed in mammalien cells and purified in one-step affinity chromatography<br>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.<br><br>If you are not interested in a full length protein, please contact us for individual protein fragments.<br><br>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. |
| Purity: | > 90 % as determined by Bis-Tris Page, Western Blot |
| Grade: | custom-made |

## Target Details

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| Target: | EPHX2 |
| Alternative Name: | EPHX2 (EPHX2 Products) |
| Background: | Bifunctional epoxide hydrolase 2 [Includes: Cytosolic epoxide hydrolase 2 (CEH) (EC 3.3.2.10) (Epoxide hydratase) (Soluble epoxide hydrolase) (SEH), Lipid-phosphate phosphatase (EC 3.1.3.76)],FUNCTION: Bifunctional enzyme (PubMed:12574510). The C-terminal domain has epoxide hydrolase activity and acts on epoxides (alkene oxides, oxiranes) and arene oxides (PubMed:12869654, PubMed:12574510, PubMed:22798687). Plays a role in xenobiotic metabolism by degrading potentially toxic epoxides (By similarity). Also determines steady-state levels of physiological mediators (PubMed:12869654, PubMed:12574510, PubMed:22798687, PubMed:21217101). {ECO:0000250\|UniProtKB:P80299, ECO:0000269\|PubMed:12574508, ECO:0000269\|PubMed:12574510, ECO:0000269\|PubMed:12869654, ECO:0000269\|PubMed:21217101, ECO:0000269\|PubMed:22798687}., FUNCTION: Bifunctional enzyme (PubMed:12574510). The N-terminal domain has lipid phosphatase activity, with the highest activity towards threo-9,10- |

## Target Details

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| | phosphonooxy-hydroxy-octadecanoic acid, followed by erythro-9,10-phosphonooxy-hydroxy-octadecanoic acid, 12-phosphonooxy-octadec-9Z-enoic acid and 12-phosphonooxy-octadec-9E-enoic acid (PubMed:12574510). Has phosphatase activity toward lyso-glycerophospholipids with also some lower activity toward lysolipids of sphingolipid and isoprenoid phosphates (PubMed:22217705, PubMed:22387545). {ECO:0000269\|PubMed:12574510, ECO:0000269\|PubMed:22217705, ECO:0000269\|PubMed:22387545}. |
| Molecular Weight: | 62.6 kDa |
| UniProt: | P34913 |

## Application Details

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| 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 guarantee though. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Buffer: | The buffer composition 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: | 12 months |