Recombinant Human Epoxide hydrolase 2(EPHX2)

Catalog No: #AP70274

Package Size: #AP70274-1 20ug #AP70274-2 100ug #AP70274-3 1mg

Signalway Antibody
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Description

Product Name	Recombinant Human Epoxide hydrolase 2(EPHX2)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-555aaSequence Info:Full Length
Other Names	Epoxide hydratase;Soluble epoxide hydrolase ;SEHLipid-phosphate phosphatase (EC:3.1.3.76)
Accession No.	P34913
Calculated MW	78.6 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MTLRAAVFDLDGVLALPAVFGVLGRTEEALALPRGLLNDAFQKGGPEGATTRLMKGEITLSQWIPLMEENCRK CSETAKVCLPKNFSIKEIFDKAISARKINRPMLQAALMLRKKGFTTAILTNTWLDDRAERDGLAQLMCELKMHFD FLIESCQVGMVKPEPQIYKFLLDTLKASPSEVVFLDDIGANLKPARDLGMVTILVQDTDTALKELEKVTGIQLLNT PAPLPTSCNPSDMSHGYVTVKPRVRLHFVELGSGPAVCLCHGFPESWYSWRYQIPALAQAGYRVLAMDMKG YGESSAPPEIEEYCMEVLCKEMVTFLDKLGLSQAVFIGHDWGGMLVWYMALFYPERVRAVASLNTPFIPANPN MSPLESIKANPVFDYQLYFQEPGVAEAELEQNLSRTFKSLFRASDESVLSMHKVCEAGGLFVNSPEEPSLSRM VTEEEIQFYVQQFKKSGFRGPLNWYRNMERNWKWACKSLGRKILIPALMVTAEKDFVLVPQMSQHMEDWIPH LKRGHIEDCGHWTQMDKPTEVNQILIKWLDSDARNPPVVSKM
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Bifunctional enzyme. The C-terminal domain has epoxide hydrolase activity and acts on epoxides (alkene oxides, oxiranes) and arene oxides. Plays a role in xenobiotic metabolism by degrading potentially toxic epoxides. Also determines steady-state levels of physiological mediators. The N-terminal domain has lipid phosphatase activity, with the highest activity towards threo-9,10-phosphonooxy-hydroxy-octadecanoic acid, followed by erythro-9,10-phosphonooxy-hydroxy-octadecanoic acid, 12-phosphonooxy-octadec-9Z-enoic acid, 12-phosphonooxy-octadec-9E-enoic acid, and p-nitrophenyl phospate.

References

cDNA cloning and expression of a soluble epoxide hydrolase from human liver.Beetham J.K., Tian T., Hammock B.D.Arch. Biochem. Biophys. 305:197-201(1993)Research Topic:Cancer

Note: This product is for in vitro research use only and is not intended for use in humans or animals.