

Recombinant human EPXH1 protein

Catalog Number: ATGP3766

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

21-455aa

UniProt No.

P07099

NCBI Accession No.

NP_000111

Alternative Names

Epoxide hydrolase 1, EPHX1, EPHX, EPOX, HYL1, MEH

PRODUCT SPECIFICATION

Molecular Weight

51.5 kDa (442aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 50% glycerol, 1mM DTT, 0.1M NaCl

Purity

> 85% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

EPHX1, also known as epoxide hydrolase 1, is an important bioconversion enzyme that converts epoxides from degradation of aromatics into trans-dihydrodiols that can be conjugated and excreted in the body. The epoxide hydrolase acts both in the activation and decryption of the epoxide. This enzyme plays a role in regulating the extensive oxidation state of heterologous and lipid-derived substrates. Mutations in this gene cause

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preeclampsia, lack of epoxidase, or increased epoxide hydrolase activity. Recombinant human EPXH1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

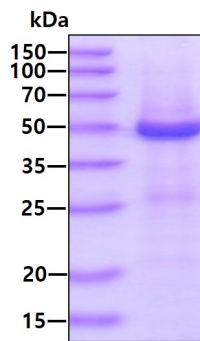
MRDKEETLPL EDGWWGPGTR SAAREDDSIK PFKVETSDEE IHDLHQRIDK FRFTPPLEDS CFHYGFNSNY LKKVISYWRN
EFDWKKQVEI LNRYPHFKTK IEGLDIHFH VKPPQLPAGH TPKPLLMVHG WPGSFYEFYK IIPLLTDPKN HGLSDEHVFE
VICPSIPGYG FSEASSKKG F NSVATARIFY KLMLRLGFQE FYIQGGDWGS LICTNMAQLV PSHVKGLHLN MALVLSNFST
LTLGLGQRF RFLGLTERDV ELLYPVKEKV FYSLMRESGY MHIQCTKPDT VGSALNDSPV GLAAYILEKF STWTNTEFRY
LEDGGLERKF SLDDLLTNVM LYWTTGTIIS SQRFYKENLG QGWMTQKHER MKVYVPTGFS AFPFELLHTP EKWVRFKYPK
LISYSYMRG GHFAAFEEPE LLAQDIRKFL SVLERQ<HHHH HH>

General References

Hartsfield JK Jr., et al. (1988) Cytogenet Cell Genet. 83:44-45.
Neurosci Bull., et al. (2016) Epub. 32:545-546

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.