Recombinant human Epoxide Hydrolase 1/EPHX1 protein

Catalog Number: ATGP2560

PRODUCT INFORMATION

Expression system
E.coli

Domain
21-455aa

UniProt No.
P07099

NCBI Accession No.
NP_000111

Alternative Names
Epoxide hydrolase 1, Epoxide hydrolase 1 microsomal (xenobiotic), MEH, EPHX, EPOX

PRODUCT SPECIFICATION

Molecular Weight
52.2 kDa (451aa)

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M urea

Purity
> 90% by SDS-PAGE

Tag
T7-Tag

Application
SDS-PAGE, Denatured

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
Epoxide hydrolase is a critical biotransformation enzyme that converts epoxides from the degradation of aromatic compounds to trans-dihydrodiols which can be conjugated and excreted from the body. Epoxide hydrolase functions in both the activation and detoxification of epoxides. Mutations in this gene cause preeclampsia, epoxide hydrolase deficiency or increased epoxide hydrolase activity. Recombinant human EPHX1 protein, fused to T7-tag at N-terminus, was expressed in E. coli.

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Amino acid Sequence

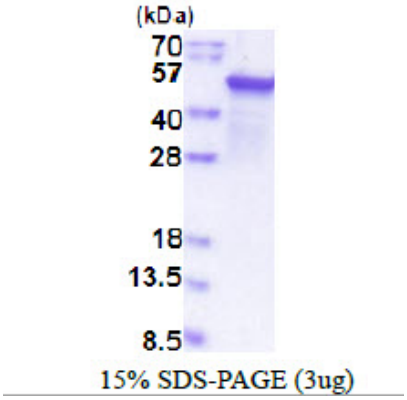
MASMTGGQQM GRGSHMRDKE ETLPLEDGWW GPGTRSAARE DDSIRPFKVE TSDEEIHDLH QRIDKFRFTP PLEDSCFHYG FNSNYLKKVI SYWRNEFDWK KQVEILNRYP HFKTKIEGLD IHFIHVKPPQ LPAGHTPKPL LMVHGWPGSF YEFYKIIPLL TDPKNHGLSD EHVFEVICPS IPGYGFSEAS SKKGFNSVAT ARIFYKLMLR LGFQEFYIQG GDWGSLICTN MAQLVPSHVK GLHLNMALVL SNFSTLTLLL GQRFGRFLGL TERDVELLYP VKEKVFYSLM RESGYMHIQC TKPDTVGSAL NDSPVGLAAY ILEKFSTWTN TEFRYLEDGG LERKFSLDDL LTNVMLYWTT GTIISSQRFY KENLGQGWMT QKHERMKVYV PTGFSAFPFE LLHTPEKWVR FKYPKLISYS YMVRGGHFAA FEEPELLAQD IRKFLSVLER Q

General References

Nguyen HL, et al. RNA, (2013). PMID 23564882.
Wang S, et al. Tumour Biol, (2013). PMID 23378225.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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