

Recombinant Human epoxide hydrolase 1, microsomal (xenobiotic), T7 tagged

Cat. No. EPHX1-463H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	EPHX1, 21- 455aa Human, T7-tagged, E.coli
Species	Human
Source	E.coli
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 His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M Urea
Molecular Mass	52.2 kDa (451aa)
AA Sequence	MASMTGGGQQM GRGSHMRDKE ETLPLEDGWW GPGTRSAARE DDSIRPFKVE TSDEEIHDH QRIDKFRFTP PLEDSCFHYG FNSNYLKKVI SYWRNEFDWK KQVEILNRYF HFKTKIEGLD IHFIHVKPPQ LPAGHTPKPL LMVHGWPGSF YEFYKIIPLL TDPKNHGLSD EHVFEVICPS IPGYGFSEAS SKKGFNSVAT ARIFYKLMLR LGFQEFYIQG GDWGSLECTN MAQLVPSHVK GLHLNMAVL SNFSTLTLLL GQRFGRFLGL TERDVELLYP VKEKVFYSLM RESGYMHIQC TKPDTVGSAL NDSPVGLAAY ILEKFSTWTN TEFRYLEDGG LERKFSLDDL

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LTNVMLYWTT GTIISQRFY KENLGQGWM T QKHERMKVYV PTGFSAFPFE
LLHTPEKWVR FKYPKLISYS YMVRGGHFAA FEEPELLAQD IRKFLSVLER Q

Purity >90 % by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [EPHX1 epoxide hydrolase 1, microsomal \(xenobiotic\) \[Homo sapiens \]](#)

Official Symbol EPHX1

Synonyms EPHX1; epoxide hydrolase 1, microsomal (xenobiotic); EPHX; epoxide hydrolase 1; epoxide hydratase; MEH; EPOX; HYL1;

Gene ID [2052](#)

mRNA Refseq [NM_000120](#)

Protein Refseq [NP_000111](#)

UniProt ID [P07099](#)

Chromosome Location 1q42.1

Pathway Bile secretion, organism-specific biosystem; Bile secretion, conserved biosystem; Metabolism of xenobiotics by cytochrome P450, organism-specific biosystem;

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Metabolism of xenobiotics by cytochrome P450, conserved biosystem;

Function

cis-stilbene-oxide hydrolase activity; epoxide hydrolase activity; hydrolase activity;

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