

Recombinant Human EPHX1, T7-tagged

Cat. No. EPHX1-5064H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human EPHX1 protein, fused to His-tag at N-terminus, was expressed in 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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M Urea
Molecular Mass	52.2 kDa (451aa)
AA Sequence	MASMTGGGQM GRGSHMRDKE ETLPLEDGWW GPGTRSAARE DDSIRPFKVE TSDEEIHDLH QRIDKFRFTP PLEDSCFHYG FNSNYLKKVI SYWRNEFDWK KQVEILNRY P HFKTKIEGLD IHFIHVKPPQ LPAGHTPKPL LMVHGWP GSF YEFYKIIPLL TDPKNHGLSD EHVFEVICPS IPGYGFSEAS SKKGFNSVAT ARIFYKLMLR LGFQEFYIQG GDWGS LICTN MAQLVPSHV K GLHLNMA LVL SNFSTLTLLL GQRFG RFLGL TERDVELLYP VKEKVFYSLM RESGYMHIQC TKPDTVGSAL NDSPVGLAAY ILEKFSTWTN TEF RYLEDGG LERKFS LDDL LTNVMLYWTT GTI SSQRFY KENLGQG WMT QKHERMKVYV PTGFSAFPFE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

LLHTPEKWVR FKYPKLISYS YMVRGGHFAA FEEPELLAQD IRKFLSVLER Q

Purity >90 % by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20centigrade or -70centigrade. 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

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Pathway	Bile secretion, organism-specific biosystem; Bile secretion, conserved biosystem; Metabolism of xenobiotics by cytochrome P450, organism-specific biosystem; Metabolism of xenobiotics by cytochrome P450, conserved biosystem;
Function	cis-stilbene-oxide hydrolase activity; epoxide hydrolase activity; hydrolase activity;

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