

# Product information

## EPHX1, 21-455aa

Human, His-tagged, Recombinant, Insect cell

Cat. No. IBATGP3766

**Full name:** Epoxide hydrolase 1

**NCBI Accession No.:** NP\_000111

**Synonyms:** EPHX1, EPHX, EPOX, HYL1, MEH

**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 preeclampsia, lack of epoxidase, or increased epoxide hydrolase activity. Recombinant human EPHX1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

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

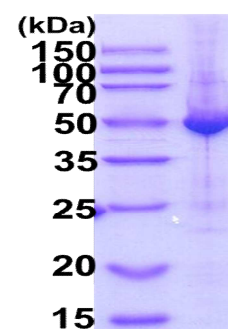
**Molecular Weight:** 51.5kDa (442aa)  
50-70kDa (SDS-PAGE under reducing conditions)

**Predicted N terminal:** Met

**Purity:** > 85% by SDS - PAGE.

**Concentration:** 0.25mg/ml (determined by Absorbance at 280nm)

**Endotoxin Level:** < 1.0 EU per 1µg of protein (determined by LAL method)



15% SDS-PAGE (3ug)

### Sequences of amino acids:

MRDKEETLPL EDGWWGPGTR SAAREDDISR PFKVETSDEE IHDLHQRIDK FRFTPPLEDS CFHYGFNSNY LKKVISYWRN EFDWKKQVEI  
LNRYPHFKTK IEGLDIHFIH VKPPQLPAGH TPKPLLMVHG WPGSFYEFYK IIPLLTDPKN HGLSDEHVFE VICPSIPGYG FSEASSKKG  
NSVATARIFY KLMLRLGFQE FYIQGGDWGS LICTNMAQLV PSHVKGLHLN MALVLSNFST LTLLLGQRFG RFLGLTERDV ELLYPVKEKV  
FYSLMRESGY MHIQCTKPDV VGSALNDSPV GLAAYILEKF STWTNTEFRY LEDGGLERKF SLDDLLTNVM LYWTTGTIIS SQRFYKENLG  
QGWMTQKHER MKVYVPTGFS AFPFELLHTP EKWVRFKYPK LISYSYMRVG GHFAAFEEPE LLAQDIRKFL SVLERQH~~HHH~~HH

### General references:

Hartsfield JK Jr., *et al.* (1988) *Cytogenet Cell Genet.* 83:44-45.

Neurosci Bull., *et al.* (2016) *Epub.* 32:545-546

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



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# Product information

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

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