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**Product Data Sheet**


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Product Name: EPHX1 Human, Sf9

Cat. No.: GP21613

Batch No.: 1

**Product Data**

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|---------------------|--|--------------------|-------------------------|
| Purity              | >98%   | Source             | Sf9, Insect cells.      |
| Physical Appearance | solid  | Shipping Condition | Shipped with Ice Packs. |
| Synonyms            | Epoxide hydrolase 1; Epoxide hydratase; Microsomal epoxide hydrolase; Meh; EPHX1; EPHX; EPOX; Epoxide Hydrolase 1 Microsomal; Microsomal Epoxide Hydrolase; EC 3.3.2.9; HYL1   |                    |                         |
| Amino Acid Sequence | MRDKEETLPL EDGWWGPGTR SAAREDD SIR PFKVETSDEE IHDLHQRIDK<br>FRFTPPL EDS CFHYGFNSNY LKKVISYWRN EFDWKKQVEI LNRYPHFKTK<br>IEGLDIHFIH VKPPQLPAGH TPKPLLMVHG WPGSFYEFYK IIPLLTDPKN<br>HGLSDEHVFE VICPSIPGYG FSEASSKKG F NSVATARIFY KLMLRLGFQE<br>FYIQGGDWGS LICTNMAQLV PSHVKGLHLN MALVLSNFST LLLLLGQRFG<br>RFLGLTERDV ELLYPVKEKV FYSLMRESGY MHIQCTKPDT VGSALNDSPV<br>GLAAYILEKF STWTNTEFRY LEDGGLERKF SLDDLLTNVM LYWTTGTIIS<br>SQRFYKENLG QGWMTQKHER MKVYVPTGFS AFPFELLHTP EKWVRFKYPK<br>LISYSYMVRG GHFAAFEEPE LLAQDIRKFL SVLERQH HHHH HH. |                    |                         |
| Formulation         | EPHX1 protein solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0) 50% glycerol, 1mM DTT and 0.1M NaCl.   |                    |                         |

**Introduction**

Epoxide Hydrolase 1 Microsomal (EPHX1) is a vital biotransformation enzyme which transfers epoxides from the degradation of aromatic compounds to trans-dihydrodiols that can be conjugated and excreted from the body. Epoxide hydrolase plays a role in both activation and detoxification of epoxides. Mutations in EPHX1 trigger preeclampsia, epoxide hydrolase deficiency or increased epoxide hydrolase activity.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

**Caution: Product has not been fully validated for medical applications. For research use only.**

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

EPHX1 produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 442 amino acids (21-455 a.a.) and having a molecular mass of 51.5kDa (Molecular size on SDS-PAGE will appear at approximately 50-70kDa).EPHX1 is expressed with an 7 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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