
Product Data Sheet

Product Name: EPHX1 Human

Cat. No.: GP21612

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Epoxide hydrolase 1; microsomal (xenobiotic); MEH; EPHX; EPOX; Epoxide hydratase; Microsomal epoxide hydrolase.		
Amino Acid Sequence	MASMTGGQQM GRGSHMRDKE ETLPLEDGWW GPGTRSAARE DDSIRPFKVE TSDEEIHDHLH QRIDKFRFTP PLEDSCFHYG FNSNYLKKVI SYWRNEFDWK KQVEILNRYP HFKTKIEGLD IHFIHVKPPQ LPAGHTPKPL LMVHGWPGSF YEFYKIIPLL TDPKNHGLSD EHVFEVICPS IPGYGFSEAS SKKGFNSVAT ARIFYKLMLR LGFQEFYIQG GDWGSLECTN MAQLVPSHVK GLHLNMALVL SNFSTLTL LLL GQRFRGFLGL TERDVELLYP VKEKVFYSLM RESGYMHIQC TKPDTVGSAL NDSPVGLAAY ILEKFSTWTN TEFRYLEDGG LERKFSLDDL LTNVMLYWTT GTIISSQRFY KENLGQGWMT QKHERMKVYV PTGFSAFPFE LLHTPEKWVR FKYPKLISYS YMVRGGHFAA FEEPELLAQD IRKFLSVLER Q.		
Formulation	The EPHX1 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea.		

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

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

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Background

EPHX1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 451 amino acids (21-455a.a) and having a molecular mass of 52.2kDa. EPHX1 is fused to a 16 amino acid T7-tag at N-terminus & purified by proprietary chromatographic techniques.

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