

Recombinant Human EPHX2 Protein, His-tagged

Cat. No. EPHX2-584H Lot. No. (See product label)

SPECIFICATION

Product Overview Active human recombinant N-terminal His-tagged EPHX2 protein was purified from Sf21 cells.

Species Human

Source Insect Cells

Description Mammalian soluble epoxide hydrolase (sEH) is a member of the α/β -hydrolase fold family of enzymes that catalyzes the hydrolysis of exogenous and endogenous epoxides to vicinal diols. sEH is a homodimer consisting of two domains. The C-terminal domain is responsible for the epoxide hydrolase activity while the N-terminal domain has a catalytic center with phosphatase activity. Endogenous substrates for sEH include epoxyeicosatrienoic acids (EETs) which are known for their vasodilatory effects as well as for their anti-inflammatory actions. Inhibition of sEH in animal models was shown to reduce hypertension and vascular inflammation, as well as related syndromes, validating sEH as a highly promising target for drug discovery.

Molecular Mass 64 kDa

Purity $\geq 95\%$ estimated by SDS-PAGE

Unit Definition One unit hydrolyzes 1 nmol/min of PHOME at 37 centigrade. Detected by fluorescence of product; Ex. 330 nm, Em. 465 nm and measured against a standard curve of 6-methoxy-2-naphthaldehyde.

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Notes	For research use only
Stability	≥ 6 months
Storage	Store at -80 centigrade.
Warning	This product is not for human or veterinary use.

GENE INFORMATION

Gene Name	EPHX2 epoxide hydrolase 2 [Homo sapiens (human)]
Official Symbol	EPHX2 epoxide hydrolase 2 [Homo sapiens (human)]
Synonyms	EPHX2; epoxide hydrolase 2; Cytosolic Epoxide Hydrolase (CEH); EPHX2; Epoxide Hydrolase 2; sEH; CEH; SHE; bifunctional epoxide hydrolase 2; epoxide hydratase; epoxide hydrolase 2, cytoplasmic; epoxide hydrolase 2, cytosolic; epoxide hydrolase, soluble; EC 3.1.3.76; EC 3.3.2.10
Gene ID	2053
mRNA Refseq	NM_001256482
Protein Refseq	NP_001243411
MIM	132811
UniProt ID	P34913

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