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PRODUCT INFORMATION



Soluble Epoxide Hydrolase (mouse recombinant)

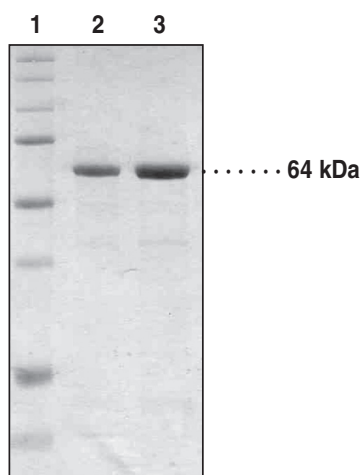
Item No. 10011670

Overview and Properties

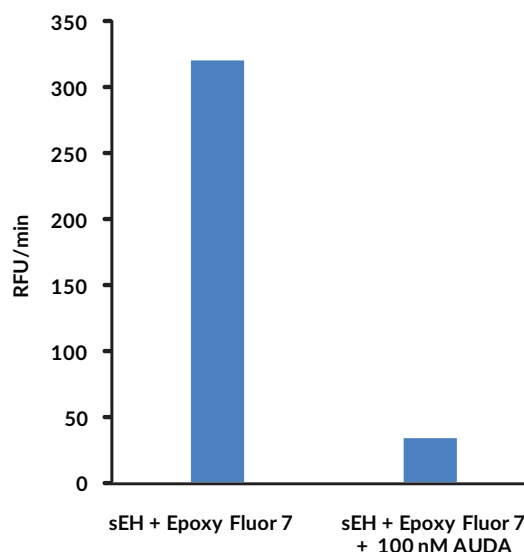
Synonyms: Cytosolic Epoxide Hydrolase (CEH), EPHX2, Epoxide Hydrolase 2, sEH
Source: Mouse recombinant N-terminal hexahistidine-tagged protein purified from Sf 21 cells
Uniprot No.: P34914
Molecular Weight: 64 kDa
Storage: -80°C (as supplied)
Stability: ≥1 year
Purity: *batch specific* (≥95% estimated by SDS-PAGE)
Supplied in: TBS, pH 7.4 with 20% glycerol
Protein Concentration: *batch specific* mg/ml
Activity: *batch specific* U/ml
Specific Activity: *batch specific* U/mg
Unit Definition: One unit is defined as the amount of enzyme required to produce 1 nmole of 6-methoxy-2-naphthaldehyde per minute at 37°C in 25 mM bis-Tris, pH 7.0, containing 1 μM PHOME

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Images



Lane 1: MW Standards
Lane 2: Mouse sEH (2 μg)
Lane 3: Mouse sEH (4 μg)



SDS-PAGE Analysis of Soluble Epoxide Hydrolase

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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PRODUCT INFORMATION



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.¹ 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.² 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.³

References

1. Chiamvimonvat, N., Ho, C.M., Tsai, H.J., *et al.* The soluble epoxide hydrolase as a pharmaceutical target for hypertension. *J. Cardiovasc. Pharmacol.* **50**(3), 225-237 (2007).
2. Yu, Z., Xu, F., Huse, L.M., *et al.* Soluble epoxide hydrolase regulates hydrolysis of vasoactive epoxyeicosatrienoic acids. *Circ. Res.* **87**(11), 992-998 (2000).
3. Imig, J.D., Zhao, X., Zaharis, C.Z., *et al.* An orally active epoxide hydrolase inhibitor lowers blood pressure and provides renal protection in salt-sensitive hypertension. *Hypertension* **46**(2), 975-981 (2005).

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