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Product Information



Soluble Epoxide Hydrolase Blocking Peptide

Item No. 10010147

The metabolism of exogenous and endogenous epoxides relies in part upon the activity of soluble epoxide hydrolase (sEH).¹ The relevance of sEH to hypertension and inflammation makes it a potentially useful clinical drug target. Specifically, the conversion of epoxyeicosatrienoic acids (EpETrEs, EETs) by sEH to the corresponding dihydroxy eicosatrienoic acids (DiHETrEs, DHETs) diminishes their vasodilator activity.² Inhibitors of sEH may therefore have clinical utility for treating hypertension and systemic inflammation.^{3,4} Cayman's polyclonal antibody is useful for monitoring the quantity and distribution of sEH.

Laboratory Procedures

This vial contains 200 µg of peptide in 200 µl TBS, pH 7.4, containing 0.1% BSA and 0.02% sodium azide. The soluble epoxide hydrolase blocking peptide (human amino acids 292-306) can be used in conjunction with Cayman's Soluble Epoxide Hydrolase Polyclonal Antibody (Item No. 10010146) to block protein-antibody complex formation during immunochemical analysis of soluble epoxide hydrolase.

Store this peptide solution at -20°C. It will be stable for at least two years. To block antibody/protein complex formation, the following procedure is recommended:

1. Mix the Soluble Epoxide Hydrolase Polyclonal Antibody (Item No. 10010146) and blocking peptide together in a 1:1 (v/v) ratio in a microfuge tube. For example, mix 20 µl of antibody and 20 µl of peptide.*
2. Incubate for one hour at room temperature with occasional mixing prior to further dilution and application of the mixture to the immunoblot.
3. Dilute the mixture to the final working antibody concentration and apply to the slide or membrane as usual.

*This is a recommended mixture. The minimum amount of peptide needed for complete blocking has not been precisely determined and may vary depending on the sample being analyzed. The amount of peptide required may need to be increased if sufficient blocking does not occur.

References

1. Halarnkar, P.P., Wixtrom, R.N., Silva, M.H., *et al.* Catabolism of epoxy fatty esters by the purified epoxide hydrolase from mouse and human liver. *Arch. Biochem. Biophys.* **272**, 226-236 (1989).
2. Yu, Z., Xu, F., Huse, L.M., *et al.* Soluble epoxide hydrolase regulates hydrolysis of vasoactive epoxyeicosatrienoic acids. *Circ. Res.* **87**, 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).
4. Schmelzer, K.R., Kubala, L., Newman, J.W., *et al.* Soluble epoxide hydrolase is a therapeutic target for acute inflammation. *Proc. Natl. Acad. Sci. USA* **102**(28), 9772-9777 (2005).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10010147

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent *via* email to your institution.

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