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Product Information



5-OxoETE Receptor Blocking Peptide

Item No. 10006618

The 5-OxoETE receptor recognizes eicosatetraenoic acids and polyunsaturated fatty acids including 5-Oxo-6E,8Z,11Z,14Z-eicosatetraenoic acid (5-OxoETE), which is the most potent ligand.¹ 5-OxoETE is a potent stimulator of chemotaxis for eosinophils and neutrophils that mediates its action *via* a putative G-protein coupled receptor (GPCR).^{2,3} The receptor couples to G_{i/o} to inhibit cyclic AMP production and to mobilize intracellular calcium.^{2,3} Northern blot analysis reveals that the receptor is highly expressed on eosinophils and neutrophils, suggesting a key role in the inflammatory response.³ In addition, the protein can also be detected in tissues such as kidney and liver.^{2,3}

Laboratory Procedures

This vial contains 200 µg peptide in 200 µl TBS, pH 7.4, containing 0.1% BSA and 0.02% sodium azide. The 5-OxoETE blocking peptide (Human 5-OxoETE receptor amino acids 408-423) can be used in conjunction with Cayman's 5-OxoETE Receptor Polyclonal Antibody (Item No. 100025) to block protein-antibody complex formation during immunochemical analysis of the 5-OxoETE receptor.

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 5-OxoETE Receptor Polyclonal Antibody (Item No. 100025) and blocking peptide together in a 2:1 (v/v) ratio in a microfuge tube. For example, mix 80 µl of antibody and 40 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. Im, D.-S. Discovery of new G protein-coupled receptors for lipid mediators. *J. Lipid Res.* **45**, 410-418 (2004).
2. Hosoi, T., Koguchi, Y., Sugikawa, E., *et al.* Identification of a novel human eicosanoid receptor coupled to G_{i/o}. *J. Biol. Chem.* **277**(35), 31459-31465 (2002).
3. Jones, C.E., Holden, S., Tenaillon, L., *et al.* Expression and characterization of a 5-oxo-6E,8Z,11Z,14Z-eicosatetraenoic acid receptor highly expressed on human eosinophils and neutrophils. *Mol. Pharmacol.* **63**(3), 471-477 (2003).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10006618

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.

WARRANTY AND LIMITATION OF REMEDY

Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman **warrants only** to the original customer that the material will **meet our specifications at the time of delivery.**

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have **any obligation or liability**, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees.

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For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.

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