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Product Information



PAF Receptor Blocking Peptide (Monoclonal)

Item No. 360600

PAF is a potent phospholipid mediator which exerts diverse biological actions by interaction with a G protein-coupled PAF receptor. The PAF receptor has been cloned from a number of species including human, rat, and guinea pig and is characterized as a 7-transmembrane receptor which induces phosphoinositol turnover through G-protein coupling.¹⁻⁵ Northern blot analysis reveals that the receptor is expressed in leukocytes, placenta, lung, spleen, small intestine, kidney, liver, and brain.^{3,4} In leukocyte cell populations the receptor is found on platelets, myocytes, neutrophils, and B-cells, whereas resting T-cells and natural killer cell lines do not express the PAF receptor.⁶ Human monocytes treated with INF- γ have a 2-6 fold increase in PAF receptor expression compared to untreated cells.⁷

Laboratory Procedures

This vial contains 200 μg of lyophilized peptide derived from the human PAF receptor sequence (amino acids 260-269; LGFQDSKFHQ).¹⁻³ This peptide was used as an antigen for production of the PAF Receptor (human) Monoclonal Antibody (Item No. 160600). This blocking peptide can be used in conjunction with Cayman's PAF Receptor (human) Monoclonal Antibody to block protein-antibody complex formation during immunochemical analysis for PAF receptor.

Reconstitute the lyophilized peptide with 200 μl of PBS or distilled water. Store this peptide solution at -20°C . It should be stable for at least two years. To block antibody/protein complex formation, the following procedure is recommended:

1. Mix the PAF Receptor (human) Monoclonal Antibody (Item No. 160600) 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

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3. Ye, R.D., Prossnitz, E.R., Zou, A., *et al.* Characterization of a human cDNA that encodes a functional receptor for platelet activating factor. *Biochem. Biophys. Res. Commun.* **180**, 105-111 (1991).
4. Bito, H., Honda, Z., Nakamura, M., *et al.* Cloning, expression and tissue distribution of rat platelet-activating-factor-receptor cDNA. *Eur. J. Biochem.* **227**, 211-218 (1994).
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7. Quillet, S., Müller, E., and Rola-Pleszczynski, M. INF- γ up-regulates platelet-activating factor receptor gene expression in human monocytes. *J. Immunol.* **152**, 5092-5099 (1994).

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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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