

FCER1G Blocking Peptide (C-term)

Synthetic peptide

Catalog # BP19903b

Specification

FCER1G Blocking Peptide (C-term) - Product Information

Primary Accession

[P30273](#)

Other Accession

[P20411](#), [Q9XSZ6](#), [P20491](#), [Q8SPW1](#), [Q9BDR7](#),
[NP_004097.1](#)**FCER1G Blocking Peptide (C-term) - Additional Information**

Gene ID 2207

Other Names

High affinity immunoglobulin epsilon receptor subunit gamma, Fc receptor gamma-chain, FcRgamma, Fc-epsilon RI-gamma, IgE Fc receptor subunit gamma, FcεRI gamma, FCER1G

Target/Specificity

The synthetic peptide sequence is selected from aa 75-86 of HUMAN FCER1G

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

FCER1G Blocking Peptide (C-term) - Protein Information

Name FCER1G

Function

Adapter protein containing an immunoreceptor tyrosine-based activation motif (ITAM) that transduces activation signals from various immunoreceptors. As a component of the high-affinity immunoglobulin E (IgE) receptor, mediates allergic inflammatory signaling in mast cells. As a constitutive component of interleukin-3 receptor complex, selectively mediates interleukin 4/IL4 production by basophils, priming T-cells toward effector T-helper 2 subset. Associates with pattern recognition receptors CLEC4D and CLEC4E to form a functional signaling complex in myeloid cells. Binding of mycobacterial trehalose 6,6'- dimycolate (TDM) to this receptor complex leads to phosphorylation of ITAM, triggering activation of SYK, CARD9 and NF-kappa-B, consequently driving maturation of antigen-presenting cells and shaping antigen- specific priming of T-cells toward effector T-helper 1 and T-helper 17 cell subtypes. May function cooperatively with other activating receptors. Functionally linked to integrin beta-2/ITGB2-mediated neutrophil activation. Also involved in integrin alpha-2/ITGA2-mediated platelet activation.

Cellular Location

Cell membrane; Single-pass type I membrane protein

FCER1G Blocking Peptide (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

FCER1G Blocking Peptide (C-term) - Images**FCER1G Blocking Peptide (C-term) - Background**

The high affinity IgE receptor is a key molecule involved in allergic reactions. It is a tetramer composed of 1 alpha, 1 beta, and 2 gamma chains. The gamma chains are also subunits of other Fc receptors.

FCER1G Blocking Peptide (C-term) - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Han, S., et al. Hum. Immunol. 71(7):727-730(2010)
Rajaraman, P., et al. Cancer Epidemiol. Biomarkers Prev. 19(5):1356-1361(2010)
Davila, S., et al. Genes Immun. 11(3):232-238(2010)
Untersmayr, E., et al. PLoS ONE 5 (2), E9023 (2010) :