

CD23/Fc epsilon RII Protein, Human (HEK293, His)

Cat. No.:	HY-P72748
Synonyms:	Low affinity immunoglobulin epsilon Fc receptor; BLAST-2; FCER2; CD23A; CLEC4J; FCE2; IGEBF
Species:	Human
Source:	HEK293
Accession:	P06734 (D48-S321)
Gene ID:	2208
Molecular Weight:	35-40 kDa

PROPERTIES

AA Sequence	<pre> DTTQSLKQLE ERAARNVSQV SKNLESHHGD QMAQKSQSTQ ISQELEELRA EQQRLKSQDL ELSWNLNLGLQ ADLSSFKSQE LNERNEASDL LERLREEVTK LRMELQVSSG FVCNTCPEKW INFQRKCYFY GKGTKQWVHA RYACDDMEGQ LVS IHSPEEQ DFLTKHASHT GSWIGLRNLD LKGEFIWVDG SHVDYSNWAP GEPTSRSQGE DCVMMRGSGR WNDAFCDRKL GAWVCDRLAT CTPPASEGSA ESMGPDSRPD PDGRLPTPSA PLHS </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>CD23, also known as Fc epsilon receptor II (Fc epsilon RII), functions as a low-affinity receptor for immunoglobulin E (IgE) and complements receptor 2 (CR2/CD21). Playing crucial roles in the regulation of IgE production and B cell differentiation, CD23 on B cells facilitates IgE-dependent antigen uptake and presentation to T cells. In macrophages, IgE binding and antigen cross-linking trigger intracellular killing of parasites by activating the L-Arginine-nitric oxide pathway. CD23 forms homotrimers and interacts with IGHE, specifically via its C-type lectin domain, regulating IgE homeostasis. Furthermore,</p>
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CD23 interacts with CR2/CD21 through its C-terminus, specifically engaging with Sushi domains 1 and 2 of CR2/CD21. These interactions underscore CD23's multifaceted involvement in immune responses, ranging from B cell activation to the macrophage-mediated defense against parasites.

Caution: Product has not been fully validated for medical applications. For research use only.

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