

## CD23/Fc epsilon RII Protein, Rat (HEK293, Fc)

<b>Cat. No.:</b>	HY-P74320
<b>Synonyms:</b>	Low affinity immunoglobulin epsilon Fc receptor; BLAST-2; FCER2; CD23A
<b>Species:</b>	Rat
<b>Source:</b>	HEK293
<b>Accession:</b>	Q6AZ45 (E50-P331)
<b>Gene ID:</b>	171075
<b>Molecular Weight:</b>	Approximately 60-75 kDa due to the glycosylation.

### PROPERTIES

<b>AA Sequence</b>	<pre> E T E K S L K Q L G   D A A I Q N V S H V   T K D L Q N Y Q S N   Q L A Q K S Q A L Q M S Q N L E E L Q A   E Q K Q M K S Q D S   Q L S Q N L N E L Q   E D L I N V K S Q N S E L S Q N L N T L   Q E D L V N V K S Q   G L N E K R A A S D   S L E K L Q E E V A K L W I E I L M S K   G T A C N V C P K D   W L H F Q Q K C Y Y   F G E G S K Q W I Q A K F T C S D L E G   R L V S I H S Q K E   Q D F L M Q H I N K   K E S W I G L Q D L N M E G E F V W P D   G S P V G Y S N W S   P G E P N N G G Q G   E D C V M M R G S G Q W N D A F C R S Y   L D A W V C E Q L A   T C D L S A P L A S   V T P T G P T P K N E P           </pre>
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized Rat CD23 at 2µg/mL (100µL/well) can bind Human IgE. The ED <sub>50</sub> for this effect is 0.5997 µg/mL.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, PH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	CD23, also known as Fc epsilon Receptor II (Fc epsilon RII), is a low-affinity receptor for immunoglobulin E (IgE) and
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complement receptor 2 (CR2/CD21). CD23 on B cells plays a crucial role in the regulation of IgE production and B cell differentiation, promoting the uptake and presentation of IGE-dependent antigens to T cells. In macrophages, IgE binding and antigenic crosslinking trigger the parasite's intracellular killing by activating the L-arginine-nitric oxide pathway. CD23 forms homologous trimers and interacts with IGHE, particularly through its C-type lectin domain, regulating IgE homeostasis. CD23 plays an important role in immune responses ranging from B-cell activation to macrophage-mediated parasite defense<sup>[1][2]</sup>.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA