

IgJ Protein, Human (His)

Cat. No.:	HY-P74842
Synonyms:	Immunoglobulin J chain; JCHAIN; IG CJ; IGJ
Species:	Human
Source:	E. coli
Accession:	P01591/NP_653247.1 (Q23-D159)
Gene ID:	3512
Molecular Weight:	Approximately 26 kDa

PROPERTIES

AA Sequence	<p>Q E D E R I V L V D N K C K C A R I T S R I I R S S E D P N E D I V E R N I R I</p> <p>I V P L N N R E N I S D P T S P L R T R F V Y H L S D L C K K C D P T E V E L D</p> <p>N Q I V T A T Q S N I C D E D S A T E T C Y T Y D R N K C Y T A V V P L V Y G G</p> <p>E T K M V E T A L T P D A C Y P D</p>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.
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>The IgJ protein plays a pivotal role in connecting two monomer units of either IgM or IgA. In the context of IgM, the J chain-jointed dimer acts as a nucleating unit for the IgM pentamer, while in the case of IgA, it induces the formation of dimers and/or larger polymers. Additionally, IgJ facilitates the binding of these immunoglobulins to the secretory component. It is an integral part of the secretory IgA (sIgA) complex, which comprises two, four, or five IgA monomers, and two additional non-Ig polypeptides, namely the J chain and the secretory component (the proteolytic product of PIGR).</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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