

## Immunoglobulin J chain Protein, Mouse (P.pastoris, His)

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|--------------------------|-----------------------------------|
| <b>Cat. No.:</b>         | HY-P71744                         |
| <b>Synonyms:</b>         | Jchain; IgJImmunoglobulin J chain |
| <b>Species:</b>          | Mouse                             |
| <b>Source:</b>           | P. pastoris                       |
| <b>Accession:</b>        | P01592 (22G-159D)                 |
| <b>Gene ID:</b>          | 16069                             |
| <b>Molecular Weight:</b> | Approximately 17.7 kDa            |

### PROPERTIES

|                                |   |
|--------------------------------|---|
| <b>AA Sequence</b>             | <p>G D D E A T I L A D      N K C M C T R V T S      R I I P S T E D P N      E D I V E R N I R I</p> <p>V V P L N N R E N I      S D P T S P L R R N      F V Y H L S D V C K      K C D P V E V E L E</p> <p>D Q V V T A T Q S N      I C N E D D G V P E      T C Y M Y D R N K C      Y T T M V P L R Y H</p> <p>G E T K M V Q A A L      T P D S C Y P D</p> |
| <b>Appearance</b>              | Lyophilized powder.   |
| <b>Formulation</b>             | Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.   |
| <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.   |
| <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> | <p>The Immunoglobulin J chain serves as a crucial link connecting two monomer units of either IgM or IgA. In the context of IgM, the J chain-joined dimer acts as a nucleating unit for the IgM pentamer, while for IgA, it induces the formation of dimers and/or larger polymers. Additionally, the Immunoglobulin J chain plays a role in binding 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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