

## Native Human Immunoglobulin E (IgE)

**Cat. No.** IGHE-214H    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>               | Human Plasma                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>          | IgE is the least abundant immunoglobulin in plasma, found at a concentration of less than 0.6 micrograms/ml of normal plasma. Elevated IgE levels are found in patients experiencing severe allergic reactions and parasitic infections. In a myeloma condition, IgE is produced by a single clone of plasma cells. The structure of myeloma IgE, however, is normal, and the immunoglobulin purified from a myeloma source is a useful protein for studying immunoglobulin behavior. |
| <b>Form</b>                 | Frozen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Molecular Mass</b>       | MW: 190,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>               | >=95% by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Usage</b>                | For research use only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Quality Control Test</b> | Shown to be non reactive for HBsAg, anti-HCV, anti-HBc, and negative for anti-HIV 1 & 2 by FDA approved tests.                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Stability</b>            | >1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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|                |       |
|----------------|-------|
| <b>Storage</b> | -20°C |
|----------------|-------|

|                       |                                                                                  |
|-----------------------|----------------------------------------------------------------------------------|
| <b>Storage Buffer</b> | 15 mM potassium phosphate, pH 7.4, with 150 mM NaCl and 0.05% NaN <sub>3</sub> . |
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## GENE INFORMATION

|                  |                                                             |
|------------------|-------------------------------------------------------------|
| <b>Gene Name</b> | IGHE Immunoglobulin heavy constant epsilon [ Homo sapiens ] |
|------------------|-------------------------------------------------------------|

|                        |      |
|------------------------|------|
| <b>Official Symbol</b> | IGHE |
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|                 |                                              |
|-----------------|----------------------------------------------|
| <b>Synonyms</b> | IGHE; Immunoglobulin heavy constant epsilon; |
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|                |      |
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| <b>Gene ID</b> | 3497 |
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|                            |          |
|----------------------------|----------|
| <b>Chromosome Location</b> | 14q32.33 |
|----------------------------|----------|

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|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pathway</b> | FCERI mediated Ca <sup>2+</sup> mobilization, organism-specific biosystem; FCERI mediated NF-κB activation, organism-specific biosystem; IL4-mediated signaling events, organism-specific biosystem |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                 |                                                                 |
|-----------------|-----------------------------------------------------------------|
| <b>Function</b> | antigen binding; contributes_to immunoglobulin receptor binding |
|-----------------|-----------------------------------------------------------------|

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