

## Recombinant Human RGS20 Protein, His-tagged

**Cat. No.** RGS20-2654H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human RGS20 Protein (Met1-Ala388) with a N-His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | Met1-Ala388                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | The protein encoded by this gene belongs to the family of regulator of G protein signaling (RGS) proteins, which are regulatory and structural components of G protein-coupled receptor complexes. RGS proteins inhibit signal transduction by increasing the GTPase activity of G protein alpha subunits, thereby driving them into their inactive GDP-bound forms. This protein selectively binds to G(z)-alpha and G(alpha)-i2 subunits, and regulates their signaling activities. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 47.4 kDa<br>Accurate Molecular Mass: 50 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Endotoxin</b>        | <1.0 EU per 1g (determined by the LAL method).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>           | > 90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>   | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                   |
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Storage Buffer</b> | 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                          |
| <b>Reconstitution</b> | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                            |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                   |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | RGS20 regulator of G-protein signaling 20 [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                |
| <b>Official Symbol</b> | RGS20                                                                                                                                                                                                                                                                                                                             |
| <b>Synonyms</b>        | RGS20; regulator of G-protein signaling 20; regulator of G protein signalling 20; RGSZ1; ZGAP1; gz-GAP; g(z)GAP; regulator of G-protein signaling Z1; regulator of G-protein signalling 20; gz-selective GTPase-activating protein; regulator of G-protein signaling 20 variant 2; regulator of Gz-selective protein signaling 1; |
| <b>Gene ID</b>         | 8601                                                                                                                                                                                                                                                                                                                              |
| <b>mRNA Refseq</b>     | NM_003702                                                                                                                                                                                                                                                                                                                         |

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|                |                           |
|----------------|---------------------------|
| Protein Refseq | <a href="#">NP_003693</a> |
| MIM            | <a href="#">607193</a>    |
| UniProt ID     | <a href="#">O76081</a>    |

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