## PRODUCT INFORMATION

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| **Target** | GPR161 |
| **Synonyms** | GPCR161, G protein-coupled receptor 161 |
| **Description** | Recombinant human GPR161 Protein with C-terminal human Fc tag |
| **Delivery** | In Stock |
| **Uniprot ID** | Q8N6U8 |
| **Expression Host** | HEK293 |
| **Tag** | C-Human Fc tag |
| **Molecular Characterization** | GPR161(Met1-Gln30) hFc(Glu99-Ala330) |
| **Molecular Weight** | The protein has a predicted molecular mass of 29.3 kDa after removal of the signal peptide. |
| **Purity** | The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining. |
| **Formulation & Reconstitution** | Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution. |
| **Storage & Shipping** | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature. |
| **Background** | GPR161 (G protein-coupled receptor 161) is a G-protein coupled receptor (GPCR) involved in Hedgehog signaling regulation and primary cilia function. It primarily couples to Gs proteins, activating adenylyl cyclase and elevating intracellular cAMP. GPR161 is expressed in developing tissues and the central nervous system, where it modulates embryonic development, cell proliferation, and tissue patterning. Mutations or dysregulation of GPR161 are associated with developmental disorders and ciliopathies, making it a relevant target for developmental biology and disease research. |
| **Usage** | Research use only |
| **Conjugate** | Unconjugated |



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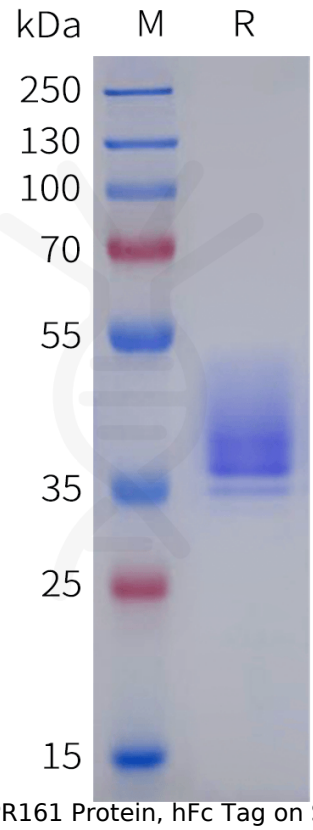


Figure 1. Human GPR161 Protein, hFc Tag on SDS-PAGE under reducing condition.



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