

# Active Recombinant Human G Protein-Coupled Receptor 115, His-tagged

**Cat. No.** GPR115-5631H    **Lot. No.** (See product label)

## SPECIFICATION

|                            |  |
|----------------------------|--|
| <b>Product Overview</b>    | Recombinant Human GPR115 protein was expressed in Chinese Hamster Ovary cell line. Ser22-Ala347, with a C-terminal 6-His tag.  |
| <b>Species</b>             | Human  |
| <b>Source</b>              | CHO  |
| <b>Protein Length</b>      | 22-347 a.a.  |
| <b>Description</b>         | GPR115 is a member of the LN-7TM family of adhesion-type 7-transmembrane (TM) G-protein coupled receptors (GPCR) that show a long extracellular N-terminus. The 695 amino acid (aa) human GPR115 sequence predicts a 21 aa signal sequence, a 385 aa N-terminal extracellular domain (ECD), seven TM regions separated by 6-24 aa intracellular and extracellular regions, and a 40 aa cytoplasmic tail. Like other LN-7TM members, the ECD contains a highly glycosylated mucin-like stalk that is predicted to function in adhesion. This is followed by a cysteine-rich GPCR proteolytic cleavage site (GPS). |
| <b>Form</b>                | Lyophilized from a 0.2 µm filtered solution in PBS.  |
| <b>N-terminal Sequence</b> | Ser22  |
| <b>Molecular Weight</b>    | 37 kDa   |

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| <b>Activity</b>        | Measured by the ability of the immobilized protein to support the adhesion of U-87 MG human glioblastoma/astrocytoma cells. When $5 \times 10^4$ cells per well are added to rhGPR115 coated plates (5 $\mu\text{g}/\text{mL}$ , 100 $\mu\text{L}/\text{well}$ ), approximately 60-85% will adhere after 60 minutes at 37°C. |
| <b>Endotoxin Level</b> | <1.0 EU per 1 $\mu\text{g}$ of the protein by the LAL method.  |
| <b>SDS-PAGE</b>        | 66-100 kDa, reducing conditions.   |
| <b>Purity</b>          | >90%, by SDS-PAGE under reducing conditions and visualized by silver stain.  |
| <b>Reconstitution</b>  | 200 $\mu\text{g}/\text{mL}$ in sterile PBS   |
| <b>Storage</b>         | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70 °C under sterile conditions after reconstitution.  |

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | GPR115 G protein-coupled receptor 115 [ Homo sapiens ]   |
| <b>Official Symbol</b> | GPR115   |
| <b>Synonyms</b>        | GPR115; G protein-coupled receptor 115; PGR18; probable G-protein coupled receptor 115; G-protein coupled receptor PGR18; seven transmembrane helix receptor |
| <b>Gene ID</b>         | 221393   |
| <b>mRNA Refseq</b>     | NM_153838  |

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| <b>Protein Refseq</b>      | NP_722580   |
| <b>MIM</b>                 | 614268  |
| <b>UniProt ID</b>          | Q8IZF3  |
| <b>Chromosome Location</b> | 6p12.3  |
| <b>Function</b>            | G-protein coupledreceptor activity; receptor activity; signal transducer activity |

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