

Active Recombinant Human G Protein-Coupled Receptor 114, His-tagged

Cat. No. GPR114-5630H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GPR114 protein was expressed in Chinese Hamster Ovary cell line. Glu22-Gly184, with a C-terminal 6-His tag.
Species	Human
Source	CHO
Protein Length	22-184 a.a.
Description	GPR114 is a member of the LN-TM7 family of adhesion-type 7-transmembrane (TM) G-protein coupled receptors (GPCR) that exhibit long extracellular N-termini. The 528 amino acid (aa) human GPR114 sequence predicts a 21 aa signal sequence, a 229aa N-terminal extracellular domain (ECD) and seven TM regions separated by short intracellular and extracellular regions. Like other LN-TM7 members, the ECD contains a highly glycosylated mucin-like stalk that is predicted to function in adhesion, followed by a GPCR proteolytic cleavage site (GPS) it does not contain any other easily recognizable domains.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
N-terminal Sequence	Glu22
Molecular Weight	19.4 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Activity	Measured by the ability of the immobilized protein to enhance the adhesion of the human T98G glioblastoma cells (ATCC: CRL-1690) to human Fibronectin. When 4x10 ⁴ cells/well are added to plates coated with human Fibronectin (0.1 µg/mL) and rhGPR114 (10 µg/well, 100 µL/well) for 60 minutes at 37°C, there is a 2-4 fold increase in adhesion to human fibronectin induced by the presence of rhGPR114.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	40-55 kDa, reducing conditions.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100 µg/mL in PBS.
Storage	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

Gene Name	GPR114 G protein-coupled receptor 114 [Homo sapiens]
Official Symbol	GPR114
Synonyms	GPR114; G protein-coupled receptor 114; PGR27; probable G-protein coupled receptor 114; G protein-coupled receptor PGR27; G-protein coupled receptor PGR27
Gene ID	221188
mRNA Refseq	NM_153837

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq	NP_722579
UniProt ID	Q8IZF4
Chromosome Location	16q13
Function	G-protein coupled receptor activity; receptor activity; signal transducer activity

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA