

## Recombinant Human GPR114 Protein (Fc Tag)

**Catalog Number:** PKSH031386

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

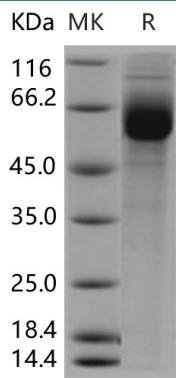
### Description

<b>Species</b>	Human
<b>Source</b>	HEK293 Cells-derived Human GPR114 protein Met 1-Gly184, with an C-terminal hFc
<b>Calculated MW</b>	45.6 kDa
<b>Observed MW</b>	56-63 kDa
<b>Accession</b>	Q8IZF4
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 94 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Data



> 94 % as determined by reducing SDS-PAGE.

### Background

### For Research Use Only

GPR114 belongs to the G-protein coupled receptor 2 family. Members of this family share a common molecular architecture which consists of seven transmembrane domains, three extracellular loops, three intracellular loops, an amino-terminal extracellular domain and an intracellular carboxyl terminus. It is thought that light acts as the activating stimulus of a G-protein-coupled receptor (GPCR). GPCRs are expected to have molecular function (G-protein coupled receptor activity) and to localize in various compartments (endoplasmic reticulum membrane, plasma membrane, integral to membrane). Family B of the GPCRs is a small but structurally and functionally diverse group of proteins that includes receptors for polypeptide hormones, molecules thought to mediate intercellular interactions at the plasma membrane and a group of *Drosophila* proteins that regulate stress responses and longevity. GPR114 contains 1 GPS domain. GPR114 gene has been proposed to participate in processes (G-protein coupled receptor protein signaling pathway, neuropeptide signaling pathway).