

# Recombinant Full Length Human GPR161 Protein

**Cat. No.** GPR161-5471HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human GPR161 full-length ORF (NP_722561.1) recombinant protein without tag.                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 212 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | Upon ligand binding, G protein-coupled receptors, such as GPR161, activate cytoplasmic G proteins (see GNAS, MIM 139320), allowing the receptors to transduce extracellular signals across the plasma membrane into the cell. Phosphorylation of the receptor attenuates signaling (Matteson et al., 2008 [PubMed 18250320]).[supplied by OMIM                                                                                          |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Molecular Mass</b>   | 58.6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MSLNSSLSCRKELSNLTEEEGGEGGVITQFIAIVITIFVCLGNLVIVVTLYKKS YLLTLS<br>NKFVFSLTLSNFLSVLVLPFVVTSSIRREWIFGVVWCNFSALLYLLISSASMLTLGVIA<br>IDRYYAVLYPMVYPMKITGNRAVMALVYIWLHSLIGCLPPLFGWSSVEFDEFKWMCV<br>AAWHREPGYTAFWQIWCA LFPLVMLVCYGFIFRVARVKARKVHCGTVVIVEEDAQ<br>RTGRKNSSTSTSSSGSRRNAFQGVVYSANQCKALITLVVLGAFMVTWGPYMVVIAS<br>EALWGKSSVSPSLETWATWLSFASAVCHPLIYGLWNKTVRKELLMCFGDRYYRE<br>PFVQRQRTSRLFSISNRITDLGLSPHLTALMAGGQPLGHSSSTGDTGFSCSQDSGT |

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DMMLLEDYTSDDNPPSHCTCPPKRRSSVTFEDEVQIKEAAKNSILHVKAIEVHKSLD  
 SYAASLAKAIEAEAKINLFGEEALPGVLVTARTVPGGGFGGRRGSRTLVSQRLQLQSI  
 EEGDVLAAEQR

**Applications**

Antibody Production  
 Functional Study  
 Compound Screening

**Notes**

Best use within three months from the date of receipt of this protein.

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

25 mM Tris-HCl of pH8.0 containing 2% glycerol.

## GENE INFORMATION

**Gene Name**

GPR161 G protein-coupled receptor 161 [ Homo sapiens ]

**Official Symbol**

GPR161

**Synonyms**

GPR161; G protein-coupled receptor 161; G-protein coupled receptor 161; RE2; G-protein coupled receptor RE2; FLJ33952;

**Gene ID**

23432

**mRNA Refseq**

NM\_153832

**Protein Refseq**

NP\_722561

**MIM**

612250

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UniProt ID

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