For Research Use Only

Recombinant human GPR56 protein (rFc Tag)

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Catalog Number: Eg2478

Basic Information

Species: Human

Purity: >90 %, SDS-PAGE

Tag: C-rFc

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Human GPR56 protein Arg26-Asn171 (Accession# Q9Y653-1) with a rabbit IgG Fc tag at the C-terminus

GeneID:
9289

Accession:
Q9Y653-1

Predicted Molecular Mass:
42.7 kDa

SDS-PAGE:
45-55 kDa, reducing (R) condition

Formulation:
Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

GPR56 belongs to the adhesion family of G protein-coupled receptors (GPRs), is a receptor involved in cell adhesion and probably in cell-cell interactions, and mediates cell matrix adhesion in developing neurons and hematopoietic stem cells. GPR56 binding to the COL3A1 ligand inhibits neuronal migration and activates the RhoA pathway by coupling to GNA13 and possibly GNA12. GPR56 Plays a critical role in cancer progression by inhibiting VEGFA production thereby inhibiting angiogenesis through a signaling pathway mediated by PRKCA.

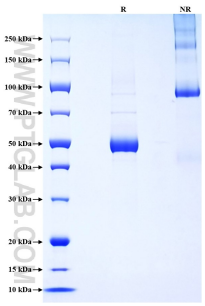
References

1. Rong Luo, et al. (2012) PLoS One. 7(1):e29818.
2. Lei Xu, et al. (2006) Proc Natl Acad Sci U S A. 103(24):9023-8.
3. Liquan Yang, et al. (2011) Cancer Res. 71(16):5558-68.

Synonyms

GPR56, ADGRG1, ADGRG1 CT, ADGRG1 C-terminal fragment, ADGRG1 NT

Selected Validation Data



Purity of Recombinant Human GPR56 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.