Data Sheet (Cat.No.TMPH-02032)

TargetMol

GPRC5A Protein, Human, Recombinant (GST)

General Information

Synonyms:	GPCR5A;Phorbol ester induced gene 1 (PEIG-1);GPRC5A;Retinoic acid-induced gene 1 protein (RAIG-1);Retinoic acid-induced protein 3;RAIG1;G-protein coupled receptor family C group 5 member A;RAI3
Protein Construction:	269-357 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q8NFJ5
Molecular Weight:	37.0 kDa (predicted)
AA Sequence:	TKQRNPMDYPVEDAFCKPQLVKKSYGVENRAYSQEEITQGFEETGDTLYAPYSTHFQLQNQPPQKEFSIPRA HAWPSPYKDYEVKKEGS

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Orphan receptor. Could be involved in modulating differentiation and maintaining homeostasis of epithelial cells. This retinoic acid-inducible GPCR provide evidence for a possible interaction between retinoid and G-protein

signaling pathways. Functions as a negative modulator of EGFR signaling. May act as a lung tumor suppressor.

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