

Recombinant Human adhesion G protein-coupled receptor G1 Protein, His&Flag tagged

Cat. No. ADGRG1-193H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human GPR56 protein (Q9Y653-1) (Arg 26-Tyr 402) with both His, Flag tag at the C-terminus was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	26-402aa
Description	Receptor involved in cell adhesion and probably in cell-cell interactions. Mediates cell matrix adhesion in developing neurons and hematopoietic stem cells. Receptor for collagen III/COL3A1 in the developing brain and involved in regulation of cortical development, specifically in maintenance of the pial basement membrane integrity and in cortical lamination. Binding to the COL3A1 ligand inhibits neuronal migration and activates the RhoA pathway by coupling to GNA13 and possibly GNA12. Plays a role in the maintenance of hematopoietic stem cells and/or leukemia stem cells in bone marrow niche. Plays a critical role in cancer progression by inhibiting VEGFA production thereby inhibiting angiogenesis through a signaling pathway mediated by PRKCA. ADGRG1 NT is proposed to inhibit receptor signaling; its interactions with extracellular ligands and/or homophilic ADGRG1NT interactions may relieve the inhibition. Following ligand binding to the N-terminal fragment, the N-terminal fragment is released from the seven-transmembrane C-terminal fragment to unveil a new N-terminal stalk, which then stimulates G-protein-dependent signaling 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

Tag	C-His&Flag
Molecular Mass	45.4 kDa
Endotoxin	Less than 1.0 EU/μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 μg/mL in sterile water.

GENE INFORMATION

Gene Name	ADGRG1 adhesion G protein-coupled receptor G1 [Homo sapiens (human)]
Official Symbol	ADGRG1
Synonyms	ADGRG1; adhesion G protein-coupled receptor G1; BFPP; BPPR; GPR56; TM7LN4; TM7XN1; CDCBM14B; CDCBM15A; adhesion G-protein coupled receptor G1; 7-transmembrane protein with no EGF-like N-terminal domains-1; G protein-coupled receptor 56; testicular tissue protein Li 77; EC 2.7.11.25
Gene ID	9289
mRNA Refseq	NM_201525.4

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

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

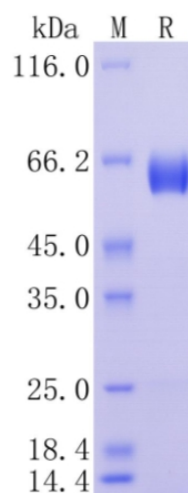
 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq [NP_958933.1](#)

MIM [604110](#)

UniProt ID [Q9Y653](#)

**Protein on SDS-
PAGE under
reducing (R)
condition.**



 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