

G-protein coupled receptor family C group 5 member D (GPRC5D) Recombinant Protein | GPRC5D recombinant protein

Recombinant Human G-protein coupled receptor family C group 5 member D (GPRC5D)-VLPs (Active)

CATALOG # AAA279282	HOST Mammalian cell
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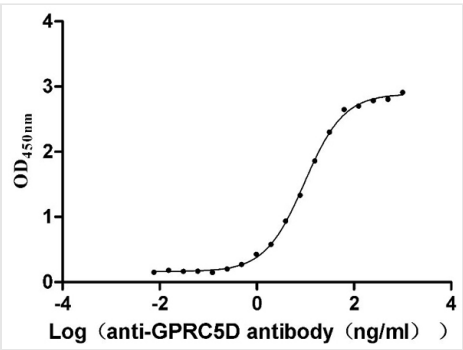
PRODUCT SYNONYMS

G-protein coupled receptor family C group 5 member D (GPRC5D); Recombinant Human G-protein coupled receptor family C group 5 member D (GPRC5D)-VLPs (Active); GPRC5D; G-protein coupled receptor family C group 5 member D; GPRC5D recombinant protein

PRODUCT SPECIFICATIONS

Host	Mammalian cell
Purity/Purification	The purity information is not available for VLPs proteins.
Form/Format	Lyophilized powder Lyophilized from a 0.2 um filtered PBS, 6% Trehalose, pH 7.4
Sequence Positions	1-345aa; Full Length
Sequence	MYKDCIESTG DYFLLCDAEG PWGIILES LA ILGIVVTILL LLAFLFLMRK IQDCSQWNVL PTQLLFLLSV LGLFGLAFAF IELNQQTAP VRYFLFGVLF ALCFSCLLAH ASNLVKLV RG CVSFSWTTIL CIAIGCSLLQ IIATEYVTL IMTRGMMFVN MTPCQLNVDF VVLLVYVFLF MALTFFVSKA TFCGPCENWK QHGRLIFITV LFSIIIVVVV ISMLLRGNPQ FQRQPQWDDP VVCIALVTNA WVFLLLYIVP ELCILYRSCR QECPLQGNAC PVTAYQHSFQ VENQELSRAR DSDGAEEDVA LTSYGTPIQP QTVDPTQECF IPQAKLSPQQ DAGGV
Species	Homo sapiens (Human)
Tag	C-terminal 10xHis-tagged (This tag can be tested only under denaturing conditions)
Research Area	Signal TransductionLess than 1.0 EU/ug as determined by LAL method.
Transmembrane Domain	7TM
Biological_Activity	Measured by its binding ability in a functional ELISA. Immobilized Human GPRC5D at 5 ug/mL can bind Anti-GPRC5D recombinant antibody, the EC50 is 8.847-10.38 ng/mL.
Preparation and Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. Aliquot for long-term storage at -80 degree C. Solubilize for 60 minutes at room temperature with occasional gentle mixing. Avoid vigorous shaking or vortexing. The VLPs are expressed from human 293 cells (HEK293). Mix the sample gently by repeatedly pipetting it up and down. Do not vortex. Repeated freezing and thawing is not recommended. Store the protein at -20 degree C/-80 degree C upon receiving it, and ensure to avoid repeated freezing and thawing, otherwise, it will affect the protein activity. The immunization strategy should be optimized (antigen dose, regimen and adjuvant).

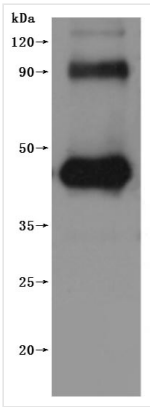
IMAGES



Bioactivity

Activity Measured by its binding ability in a functional ELISA. Immobilized Human GPRC5D at 5 ug/mL can bind Anti-GPRC5D recombinant antibody, the EC50 is 8.847-10.38 ng/mL.

Application Data
is detected by Mouse anti-6*His monoclonal antibody.



ADDITIONAL INFORMATION

Related Product Information for GPRC5D recombinant protein	GPRC5D in MM cells makes this gene and its encoded surface protein as promising markers for monitoring the tumor load and hopefully also as targets for antimyeloma antibodies. PMID: 23510526Overexpression of G protein-coupled receptor 5D in the bone marrow is associated with poor prognosis in patients with multiple myeloma. PMID: 22591013
Product Categories/Family for GPRC5D recombinant protein	MP-VLP Transmembrane Protein & Active Protein & In Stock Protein
References	"Cloning and characterization of a human orphan family C G-protein coupled receptor GPRC5D."Braeuner-Osborne H., Jensen A.A., Sheppard P.O., Brodin B., Krogsgaard-Larsen P., O'Hara P.Biochim. Biophys. Acta 1518:237-248(2001)

NCBI AND UNIPROT INFORMATION

NCBI GI #	8923705
NCBI GeneID	55507
NCBI Accession #	NP_061124.1
NCBI GenBank Nucleotide #	NM_018654.1
UniProt Accession #	Q9NZD1; Q3KNV3; Q7Z5J9; Q8TDS6
Molecular Weight	38,791 Da
NCBI Official Full Name	G-protein coupled receptor family C group 5 member D
NCBI Official Synonym Full Names	G protein-coupled receptor, family C, group 5, member D
NCBI Official Symbol	GPRC5D
NCBI Protein Information	G-protein coupled receptor family C group 5 member D; orphan G-protein coupled receptor
UniProt Protein Name	G-protein coupled receptor family C group 5 member D
UniProt Gene Name	GPRC5D
UniProt Entry Name	GPC5D_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.