

Recombinant Human ADGRE5 Protein, C-His-tagged

Cat. No. ADGRE5-217H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ADGRE5 Protein with C-His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	CD97 is a member of the EGF-TM7 (seven-span transmembrane) protein family, which is characterized by an extended extracellular region with a variable number of N-terminal EGF-like domains coupled to a TM7 stalk. It is expressed by leukocytes following activation. CD97 binds to its cellular ligand CD55 (decay accelerating factor) and protects several cell types from complement-mediated damage. The CD97-CD55 interaction may play a role in cellular activation, migration and adhesion following inflammation. CD97 expression is increased in thyroid cancer, paralleling dedifferentiation and tumor staging in this disease. Many colorectal cell lines are also CD97+, with CD97 levels correlating with migration and invasion in vitro. CD97 is also expressed in various gastric, pancreatic and esophageal carcinomas. CD97 shares significant homology with EMR2, however the two proteins exhibit different expression patterns, as EMR2 is not expressed in any of the aforementioned cancer cells.
Molecular Mass	~59 kDa
AA Sequence	QDSRGCARWCPQNSSCVNATACRCNPGFSSFSEIITPTETCDDINECATPSKVSC GKFSDCWNTEGSYDCVCSPGYEPVSGAKTFKNESENTCQDVDECQQNPRLCKSY

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GTCVNTLGSYTCQCLPGFKFIPEDPKVCTDVNECTSGQNPCHSSTHCLNNVGSYQC
 RCRPGWQPIPGSPNGPNNTVCEDVDECSSGQHQCDSSTVCFNTVGSYSCRCRPG
 WKPRHGIPNNQKDTVCEDMTFSTWTPPPGVHSQTLRFFDKVQDLGRDSKTSSAE
 VTIQNVIKLVDELMEAPGDVEALAPPVRHLIATQLLSNLEDIMRILAKSLPKGPFTYISP
 SNTLTLMIQERGDKNVTMGQSSARMKLNWAVAAGAEDPGPAVAGILSIQNMTTLL
 ANASLNLHSHKKQAELEEIYESSIRGVQLRRLSAVNSIFLSHNNTKELNSPILFAFSHLE
 SSDGEAGRDPAPAKDVMPGPRQELLCAFWKSDSDRGGHWATEGCQVLGSKNGSTT
 CQCSSLSSFAILMAHYDVEDWKLTLITR

Purity

Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).

Notes

For research use only, not for use in diagnostic procedure.

Storage

Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.

Concentration

≥0.5 mg/mL

Storage Buffer

PBS, 4M Urea, pH7.4

GENE INFORMATION

Gene Name

ADGRE5 adhesion G protein-coupled receptor E5 [Homo sapiens (human)]

Official Symbol

ADGRE5

Synonyms

ADGRE5; adhesion G protein-coupled receptor E5; CD97; TM7LN1; adhesion G protein-coupled receptor E5; CD97 molecule; leukocyte antigen CD97; seven transmembrane helix receptor; seven-span transmembrane protein; seven-transmembrane, heterodimeric receptor associated with inflammation

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Gene ID	976
mRNA Refseq	NM_001784
Protein Refseq	NP_001775
MIM	601211
UniProt ID	P48960

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