

Recombinant Full Length Human GPER1 Protein, GST-tagged

Cat. No. GPER1-686HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human GPER1(1 a.a. - 375 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	375 amino acids
Description	This gene is a member of the G-protein coupled receptor 1 family and encodes a multi-pass membrane protein that localizes to the endoplasmic reticulum. The protein binds estrogen, resulting in intracellular calcium mobilization and synthesis of phosphatidylinositol 3,4,5-trisphosphate in the nucleus. This protein therefore plays a role in the rapid nongenomic signaling events widely observed following stimulation of cells and tissues with estrogen. Alternate transcriptional splice variants which encode the same protein have been characterized.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	68.6 kDa
AA Sequence	MDVTSQARGV GLEMYPGTAQ PAAPNTTSPE LNLSHPLLGT ALANGTGELS EHQQYVIGLF LSCLYTIFLF PIGFVGNILI LVVNISFREK MTIPDLYFIN LAVADLILVA DSLIEVFNLH ERYDYIAVLC TFMSLFLQVN MYSSVFFLTW MSFDRIYALA RAMRCSLFRT KHHARLSCGL IWMASVSATL VPFTAVHLQH TDEACFCFAD

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VREVQWLEVT LGFIVPFAII GLCYSLIVRV LVRAHRHRGL RPRRQKALRM
 ILAVVLVFFV CWLPENVFIS VHLLQRTQPG AAPCKQSFRH AHPLTGHIVN
 LAAFSNSCLN PLIYSFLGET FRDKLRLYIE QKTNLPALNR FCHAALKAVI
 PDSTEQSDVR FSSAV

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION
Gene Name

GPER1 G protein-coupled estrogen receptor 1 [Homo sapiens]

Official Symbol

GPER1

Synonyms

mER; CEPR; GPER; DRY12; FEG-1; GPR30; LERGU; LyGPR; CMKRL2; LERGU2;
 GPCR-Br; G protein-coupled receptor 30; IL8-related receptor DRY12;
 chemoattractant receptor-like 2; chemokine receptor-like 2; constitutively expressed
 peptide-like receptor; flow-induced endothelial G-protein coupled receptor 1;
 heptahelix receptor; leucine rich protein in GPR30 3'UTR; lymphocyte-derived G-
 protein coupled receptor; membrane estrogen receptor

Gene ID

2852

mRNA Refseq

NM_001505

Protein Refseq

NP_001496

MIM

601805

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UniProt ID

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