

Recombinant Human GPER1 protein, GST-tagged

Cat. No. GPER1-12H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GPER1(1 a.a. - 375 a.a.) fused with GST tag at N-terminal was expressed in Wheat Germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-375 a.a.
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	MDVTSQARGVGLEMYPGTAQPAAPNTTSPELNLSHPLLGTALANGTGELSEHQQY VIGLFLSCLYTIFLPIGFVGNILILVWNISFREKMTIPDLYFINLAVADLILVADSLIEVFNL HERYYDIAVLCTFMSLFLQVNMYSSVFFLTWMSFDRIYALARAMRCSLFRTKHHARL SCGLIWMASVSATLVPFTAHLQHTDEACFCFADVREVQWLEVTLGFIVPFAIIGLCY

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SLIVRVLVRAHRHRGLRPRRQKALRMILAVVLVFFVCWLPENVFISVHLLQRTQPGA
APCKQSFRHAHPLTGHIVNLAAFSNSCLNPLIYSFLGETFRDKLRLYIEQKTNLPALN
RFCHAALKAVIPDSTEQSDVRFSSAV

Applications

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

Notes

Best use within three months from the date of receipt of this protein.

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	Q99527
Chromosome Location	7p22.3
Pathway	Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Estrogen signaling pathway, organism-specific biosystem; G alpha (i) signalling events, organism-specific biosystem
Function	G-protein coupled receptor activity; mineralocorticoid receptor activity; protein binding
	