

Recombinant Human GPER Protein

Cat. No. GPER-5154H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GPER full-length ORF (NP_001496.1) recombinant protein without tag.
Species	Human
Source	Wheat Germ
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. [provided by RefSeq]
Form	Liquid
Molecular Mass	42.2 kDa
AA Sequence	MDVTSQARGVGLEMPGTAQPAAPNTTSPENLNSHPLLGTALANGTGELSEHQQY VIGLFLSCLYTIFLFPIGFVGNILILVVNISFREKMTIPDLYFINLAVADLILVADSLIEVFNL HERYYDIAVLCTFMSLFLQVNMYSVFFLTWMSFDRYIALARAMRCSLFR TKHHARL SCGLIWMA SVSATLPFTAVHLQHTDEACFCFADVREVQWLEVTLGFIVPFAIIGLCY SLIVRVLVRAHRHRGLRPRRQKALRMILAVVLVFFVCWLPENVFISVHLLQRTQPGA APCKQSFRHAHPLTGHIVNLA AFSNSCLNPLIYSFLGETFRDKLRLYIEQKTNLPALN RFCHAALKAVIPDSTEQSDVRFSSAV

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Applications	Antibody Production Functional Study Compound Screening
Usage	Heating may cause protein aggregation. Please do not heat this product before electrophoresis.
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.
Storage Buffer	25 mM Tris-HCl of pH8.0 containing 2% glycerol.
GENE INFORMATION	
Gene Name	GPGR G protein-coupled estrogen receptor 1 [Homo sapiens]
Official Symbol	GPGR
Synonyms	GPGR; G protein-coupled estrogen receptor 1; CMKRL2, G protein coupled receptor 30, GPR30; G-protein coupled estrogen receptor 1; CEPR; DRY12; FEG 1; GPCR Br; LERGU; LERGU2; LyGPR; mER; heptahelix receptor; chemokine receptor-like 2; IL8-related receptor DRY12; membrane estrogen receptor; G protein-coupled receptor 30; G-protein coupled receptor 30; chemoattractant receptor-like 2; leucine rich protein in GPR30 3UTR; lymphocyte-derived G-protein coupled receptor; constitutively expressed peptide-like receptor; flow-induced endothelial G-protein coupled receptor 1; FEG-1; GPR30; CMKRL2; GPCR-Br; MGC99678;
Gene ID	2852
mRNA Refseq	NM_001039966

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Protein Refseq	NP_001035055
MIM	601805
UniProt ID	Q99527

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