

Recombinant Full Length Human GPER Protein

Cat. No. GPER-5528HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human GPER full-length ORF (NP_001496.1) recombinant protein without tag.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	396 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. [provided by RefSeq]
Form	Liquid
Molecular Mass	42.2 kDa
AA Sequence	MDVTSQARGVGLEMYPGTAQPAAPNTTSPENLNSHPLLGTALANGTGELSEHQQY VIGLFLSCLYTIPLFPIGVGNILILVNVNISFREKMTIPDLYFINLAVADLILVADSLIEVFNL HERYYDIAVLCTFMSLFLQVNMYSVFFLTWMSFDRIYALARAMRCSLFRTKHHARL SCGLIWMASVSATLVPFTAVHLQHTDEACFCFADVREVQWLEVTLGFIVPFAIIGLCY SLIVRVLVRAHRHRGLRPRRQKALRMILAVVLVFFVCWLPENVFISVHLLQRTQPGA

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

APCKQSFRHAHPLTGHIVNLAAFSNSCLNPLIYSFLGETFRDKLRLYIEQKTNLPALN
RFCHAALKAVIPDSTEQSDVRFSSAV

Applications
Antibody Production
Functional Study
Compound Screening

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 [GPER G protein-coupled estrogen receptor 1 \[Homo sapiens \]](#)

Official Symbol [GPER](#)

Synonyms GPER; 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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