

Recombinant Human GPER1 Over-expression Lysate, C-Myc/DDK tagged

Cat. No. GPER1-01HCL Lot. No. (See product label)

SPECIFICATION

Product Overview	Transient overexpression lysate of G protein-coupled estrogen receptor 1 (GPER), transcript variant 2 with C-Myc/DDK tag was expressed in HEK293T. Components:
	1 vial of 100 µg gene specific transient over-expression cell lysate in RIPA buffer 1 vial of 100 µg whole HEK293T cell lysate in RIPA buffer 1 vial of 250 µL 2×SDS Sample Buffer (4% SDS, 125mM Tris-HCl pH6.8, 10% Glycerol, 0.002% Bromophenol blue, 100mM DTT)
Species	Human
Source	HEK293
Description	This gene encodes a multi-pass membrane protein that localizes to the endoplasmic reticulum and a member of the G-protein coupled receptor 1 family. This receptor binds estrogen and activates multiple downstream signaling pathways, leading to stimulation of adenylate cyclase and an increase in cyclic AMP levels, while also promoting 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. This receptor has been shown to play a role in diverse biological processes, including bone and nervous system development, metabolism, cognition, male fertility and uterine function.

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Molecular Mass	42.1 kDa
Stability	Lysate samples are stable for 12 months from the date of receipt when stored at -80 centigrade.
Storage	Upon receiving, store the sample at -80 centigrade. Also after dilution, the protein sample should be aliquoted and stored at -80 centigrade for long term storage. Avoid repeated freeze-thaw cycles.
Dilutions	Lysate samples can be diluted with 2×SDS Sample Buffer provided.
Shipping	Dry ice

GENE INFORMATION

Gene Name	GPER1 G protein-coupled estrogen receptor 1 [Homo sapiens (human)]
Official Symbol	GPER1
Synonyms	GPER1; G protein-coupled estrogen receptor 1; mER; CEPR; GPER; DRY12; FEG-1; GPR30; LERGU; LyGPR; CMKRL2; LERGU2; GPCR-Br; G-protein coupled estrogen receptor 1; 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; lymphocyte-derived G-protein coupled receptor; membrane estrogen receptor
Gene ID	2852
mRNA Refseq	NM_001505

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Protein Refseq	NP_001496
MIM	601805
UniProt ID	Q99527

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