



Human GPER1 blocking peptide (DAG-P1591)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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, Jul 2008]
Specificity	Ubiquitously expressed, but is most abundant in placenta. In brain regions, expressed as a 2.8 kb transcript in basal forebrain, frontal cortex, thalamus, hippocampus, caudate and putamen.
Conjugate	Unconjugated
Applications	BL
Sequence Similarities	Belongs to the G-protein coupled receptor 1 family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

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; CEPR; GPER; DRY12; FEG-1; GPR30;

LERGU; LyGPR; CMKRL2; LERGU2; GPCR-Br; G-protein coupled estrogen receptor 1; 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;

Entrez Gene ID	2852
mRNA Refseq	NM_001039966.1
Protein Refseq	NP_001035055.1
UniProt ID	Q63ZY2
Chromosome Location	7p22.3
Pathway	Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Estrogen signaling pathway, organism-specific biosystem; Estrogen signaling pathway, organism-specific biosystem; Estrogen signaling pathway, conserved biosystem; G alpha (i) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; GPCRs, Class A Rhodopsin-like, organism-specific biosystem; Peptide ligand-binding receptors, organism-s
Function	G-protein coupled receptor activity; chromatin binding; estrogen receptor activity; mineralocorticoid receptor activity; protein binding; steroid binding;