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Product Information

NativeExtract™ Human GPER1 Membrane Protein (Full length, Super Nanodisc)

Cat. No.: **S01YF-1023-KX222**
This product is for research use only and is not intended for diagnostic use.

This product is recombinant Human GPER1 protein in native nanodisc form. The synthetic compound we developed can solubilize the GPER1 protein from membrane while retaining the native structure.

Product Specifications

Host Species
Human

Target Protein
GPER1

Protein Length
Full length

Molecular Weight
42.2kDa

Sequence
Accession # Q99527

Product Description

Activity
Yes

Application
ELISA; SPR Binding Assays; Phage Display Screening; Immunity; Functional Assays

Expression Systems
HEK293 expression system

Tag
Flag tag at the C-terminus

Protein Format
Native Nanodisc

Form
Liquid

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Buffer

20 mM Tris-HCl, 150 mM NaCl, pH 8.0

Storage

The product should be stored at -20°C to -80°C.

Target

Target Protein

GPER1

Full Name

G protein-coupled estrogen receptor 1

Introduction

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.

Alternative Names

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; GPER1; G protein-coupled estrogen receptor 1

Gene ID

2852

UniProt ID

Q99527

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