

Product datasheet for TP323772L

GPR149 (NM_001038705) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human G protein-coupled receptor 149 (GPR149), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC223772 representing NM_001038705 Red=Cloning site Green=Tags(s)

MSLFLSNLSTNDSSLWKENHNSTDLLNPPGTLNIYLFCLTCLMTFAALVGSISLISLLKMQNRTVVSML
VASWSVDDLMSVLSVTIFMFLQWPNEVPGYFQFLCTTSALMYLCQGLSSNLKATLLVSYNFYTMHRGVGS
QTASRRSGQVLGVLTVWAASLLLSALPLCGWGAFVVRTPWGCLVDCSSSYVFLSIVYALAFGLLVGLSV
PLTHRLLCSEPPRLHSNYQEISRGASIPGTPPTAGRVVLSPEADAPGPSLRSSGGCSPSSDTPVFGPGAP
AAAGAEACRRENRTLYGTRSFTVSVAQKRFALILALTKVWLWLPMMMHMVVQNVVGFQSLPLETFSFLL
TLLATTVTPVFLSKRWTHLPCGCIINCRQNAYAVASDGKKIKRKGFEFNLSFQKSYGIYKIAHEDYYDD
DENSIFYHNLNMNSECETTKDPQRDNRNIFNAIKVEISTTPSLDSSTQRGINKCTNTDITEAKQDSNNKKD
AFSDKTGGDINYEETTFSEGPERRLSHEESQKPDLSDWEWCRSKSERTPRQRSGYALAIPLCAFQGTVSL
HAPTGKTLSSLTYEVSVAEGQKITPASKKIEVYRSKSVGHEPNSEDSSSTFVDTSVKIHLEVLICDNEEA
LDTVSIISNISQSSTQVRSPSLRYSRKENRFVSCDLGETASYSLFLPSTNPDPGDINISIPDTVEAHRQNS
KRQHQRDGYQEEIQLLNKAYRKREEESKGS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	80.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_001033794](#)

Locus ID: 344758

UniProt ID: [Q86SP6](#), [Q2MKA6](#)

RefSeq Size: 2323

Cytogenetics: 3q25.2

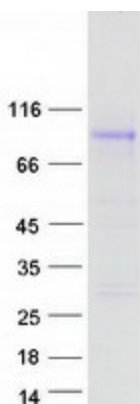
RefSeq ORF: 2193

Synonyms: IEDA; PGR10; R35

Summary: This gene encodes a seven-transmembrane G protein coupled receptor (GPCR) class A family member. Although categorized as a class A GPCR, the encoded protein lacks the first two charged amino acids of the highly conserved Asp-Arg-Tyr (DRY) motif found in the third transmembrane helix of class A receptors which is important for efficient G protein-coupled signal transduction. Mice with a knockout of the orthologous gene are viable and have normal maturation of the ovarian follicle, but show enhanced fertility and ovulation. All GPCRs have a common structural architecture consisting of seven transmembrane alpha-helices interconnected by three extracellular and three intracellular loops. A general feature of GPCR signaling is agonist-induced conformational changes in the receptor, leading to activation of the heterotrimeric G proteins, which consist of the guanine nucleotide-binding G-alpha subunit and the dimeric G-beta-gamma subunits. The activated G proteins then bind to and activate numerous downstream effector proteins, which generate second messengers that mediate a broad range of cellular and physiological processes. [provided by RefSeq, Jul 2017]

Protein Families: Druggable Genome, GPCR, Transmembrane

Product images:



Coomassie blue staining of purified GPR149 protein (Cat# [TP323772]). The protein was produced from HEK293T cells transfected with GPR149 cDNA clone (Cat# [RC223772]) using MegaTran 2.0 (Cat# [TT210002]).