

## Product datasheet for **TP323772**

### **GPR149 (NM\_001038705) Human Recombinant Protein**

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human G protein-coupled receptor 149 (GPR149), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC223772 representing NM_001038705 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MSLFLSNLSTNDSSLWKENHNSTDLLNPPGTLNIYLFCLTCLMTFAALVGSISLISLLKMQRNVVSMML  
VASWSVDDLMSVLSVTIFMFLQWPNEVPGYFQLCTTSALMYLCQGLSSNLKATLLVSYNFYTMHRGVGS  
QTASRRSGQVLGVVLTWVAASLLLSALPLCGWGAFVPTPWGCLVDCSSSYVLFSLIVYALAFGLLVGLSV  
PLTHRLLCSEEPRLHSNYQEISRGASIPGTPPTAGRVVSLSPEDAPGPSLRRSGGCSPPSDTVFGPGAP  
AAAGAEACRRENRTGLYGRSFTVSVAQKRFALILALTKVVLWLPMMMHMVVNWVGFQSLPLETFSFLL  
TLLATTVPVFVLSKRWTHLPCGCIINCRQNAYAVASDGKKIKRKGFEFNLSFQKSYGIYKIAHEDYYDD  
DENSIFYHNLNMNSECETTKDPQRDNRNIFNAIKVEISTTPSLDSSTQRGINKCTNTDITEAKQDSNNKKD  
AFSDKTGGDINYEETTFSEGPERRLSHEESQKPDLSDWEWCRSKSERTPRQRSGYALAIPLCAFQGTVS  
HAPTGKTLSTLYEVSAGQKITPASKKIEVYRSKSVGHEPNSEDSSSTFVDTSVKIHLEVLEICDNEEA  
LDTVSIISNISQSSTQVRPSLRYSRKENRFVSCDLGETASYSFLPTSNPDGDINISIPDTVEAHRQNS  
KRQHQERDGYQEEIQLLNKAYRKREEESKGS

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

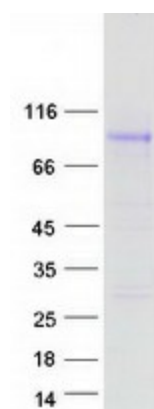
Tag:	C-Myc/DDK
Predicted MW:	80.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity 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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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<u><a href="#">NP_001033794</a></u>
<b>Locus ID:</b>	344758
<b>UniProt ID:</b>	<u><a href="#">Q86SP6</a></u>
<b>RefSeq Size:</b>	2323
<b>Cytogenetics:</b>	3q25.2
<b>RefSeq ORF:</b>	2193
<b>Synonyms:</b>	IEDA; PGR10; R35
<b>Summary:</b>	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]
<b>Protein Families:</b>	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]).