

## Product datasheet for PH323772

### GPR149 (NM\_001038705) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	GPR149 MS Standard C13 and N15-labeled recombinant protein (NP_001033794)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC223772
Predicted MW:	80.8 kDa
Protein Sequence:	>RC223772 representing NM_001038705 Red=Cloning site Green=Tags(s)

MSLFSLNLSSTNDSSLWKENHNSTDLLNPPGTLNLYFLCLTCLMTFAALVSGSIYSLISLLKMQRNRTVVSML  
VASWSVDDLMSVLSVTIFMFLQWPNEVPGYFQFLCTTSALMYLCQGLSSNLKATLLVSYNFYTMHRGVGS  
QTASRRSGQVLGVVLTVAASLLL SALPLCGWGA FVRTPWGCLVDCSSSYVFLSIVYALAFGLLVGLSV  
PLTHRLLCSEEPRLHSNYQEISR GASIPGTPPTAGRVVSLSPEDAPGPSLRRSGGCSPTSDFVFGPAP  
AAAGAEACRRENRTLYGTRSFVVAQKRFALILALTKVVLWLPMMMHMVVQNVVGFQSLPLETF SFL  
TLLATTVPVFVLSKRWHLPCGCIINCRQNAVAVASDGKKIKRKGFEFNL SFQKSYGIYKIAHEDYYDD  
DENSI FYHNL MNSECETTKDPQRDNRNIFNAIKVEISTTPSLDSSTQRGINKCTNTDITEAKQDSNNKDD  
AFSDKTGGDINYEETTFSEGPERRLSHEESQKPDLSDEWECRSKERTPRQSGYALAIPLCAFQGTVSL  
HPTGKTL SLSSTYEVSAEGQKITPASKKIEVYRSKSVGHEPNSESSSTFVDTSVKIHLEVLEICDNEEA  
LDTVSIISNISQSSTQVRPSLRYSRKENRFVSCDLGETASYSLFLPTSNPDGDNINISIPDVEAHRQNS  
KRQHQRDGYQEEIQLLNKAYRKREEESKGS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_001033794</a>



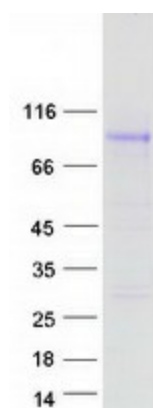
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RefSeq Size:	2323
RefSeq ORF:	2193
Synonyms:	IEDA; PGR10; R35
Locus ID:	344758
UniProt ID:	<a href="#">Q86SP6</a> , <a href="#">Q2MKA6</a>
Cytogenetics:	3q25.2

**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]).