

PRODUCT INFORMATION

GPR18 **Target**

N-arachidonyl glycine receptor; NAGly receptor; **Synonyms** G-protein coupled receptor 18 GPCRW GPR18

Human GPR18 full length protein-synthetic **Description**

nanodisc

Delivery 6~8weeks **Uniprot ID** Q14330

Expression Host HEK293

Protein Families GPCR, Transmembrane, Druggable Genome,

Protein Pathways GPCRDB Other,

The human full length GPR18 protein has a MW of **Molecular Weight**

38.1kDa

Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before Formulation & Reconstitution

lyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with pH lower than 6.5 in subsequent experiments. Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not

intended for use within a month, aliquot and store Storage & Shipping at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

Receptor for endocannabinoid N-arachidonyl

glycine (NAGly) (PubMed:16844083, PubMed:24762058, PubMed:27572937). However, conflicting results about the role of NAGly as an agonist are reported (PubMed:27018161). Can also be activated by plant-derived and synthetic cannabinoid agonists (PubMed:24762058). The activity of this receptor is mediated by G proteins

which inhibit adenylyl cyclase (PubMed:16844083). May contribute to regulation of the immune system. Is required for normal homeostasis of CD8+ subsets of intraepithelial

lymphocytes (IELs) (CD8alphaalpha and CD8alphabeta IELs)in small intstine by supporting preferential migration of CD8alphaalpha T-cells to intraepithelial compartment over lamina propria

compartment, and by mediating their reconstitution into small intestine after bone marrow transplant (By similarity). Plays a role in hypotensive responses, mediating reduction in intraocular and blood pressure (By similarity). Mediates NAGly-induced process of

reorganization of actin filaments and induction of

acrosomal exocytosis

(PubMed:27572937).[UniProtKB/Swiss-Prot

Function1

Usage Research use only



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Background