

Datasheet for ABIN7549523  
**GPR50 Protein (AA 1-617) (His tag)**



[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	GPR50
Protein Characteristics:	AA 1-617
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPR50 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant GPR50 Protein expressed in mammalian cells.
Sequence:	<p>MGPTLAVPTP YGCIGCKLPQ PEYPPALIIF MFCAMVITIV VDLIGNSMVI LAVTKNKKLR</p> <p>NSGNIFVVSL SVADMLVAIY PYPLMLHAMS IGGWDLSQLQ CQMVGFITGL SVVGSIFNIV</p> <p>AIAINRYCYI CHSLQYERIF SVRNTCIYLV ITWIMTVLAV LPNMYIGTIE YDPRTYTCIF</p> <p>NYLNNPVFTV TIVCIHFVLP LLIVGFCYVR IWTKVLAARD PAGQNPDNQL AEVRNFLTMF</p> <p>VIFLLFAVCW CPINVLTVLV AVSPKEMAGK IPNWLYLAAY FIAYFNSCLN AVIYGLLNEN</p> <p>FRREYWTIFH AMRHPIIFFS GLISDIREMQ EARTLARARA HARDQAREQD RAHACPAVEE</p> <p>TPMNVNRNPL PGDAAAGHPD RASGHPKPHS RSSAYRKSA STHHKSVFSH SKAASGHLKP</p> <p>VSGHSKPASG HPKSATVYPK PASVHFKADS VHFKGDSVHF KPDSVHFKPA SSNPKPITGH</p> <p>HVSAGSHSKS AFSAATSHPK PTTGHIKPAT SHAEPTTADY PKPATTSHPK PTAADNPELS</p> <p>ASHCPEIPAI AHPVSDDSDL PESASSPAAG PTKPAASQLE SDTIADLPDP TVVTTSTNDY</p> <p>HDVVVIDVED DPDEMAV <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make</b></p>

**another tag necessary. In case you have a special request, please contact us.**

Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	GPR50
Alternative Name:	GPR50 ( <a href="#">GPR50 Products</a> )
Background:	Melatonin-related receptor (G protein-coupled receptor 50) (H9) [Cleaved into: C-terminal domain],FUNCTION: G protein-coupled receptor that plays a role in numerous physiological processes including regulation of energy metabolism, neurite outgrowth or cell migration (PubMed:19699797). Promotes self-renewal and neuronal differentiation of neural progenitor cells through activation of the NOTCH and WNT/beta-catenin signaling pathways (By similarity). Modulates the KAT5-dependent glucocorticoid receptor signaling by modulating KAT5 subcellular compartmentalisation (PubMed:21858214). Plays also a role in the activation TGFBR1 in the absence of TGFBR2 by interfering with FKBP1A binding to TGFBR1, leading to induction of both canonical and non-canonical SMAD signaling pathways resulting in inhibition of proliferation or promotion of migration (PubMed:29572483).

## Target Details

{ECO:0000250|UniProtKB:O88495, ECO:0000269|PubMed:16778767, ECO:0000269|PubMed:19699797, ECO:0000269|PubMed:21858214, ECO:0000269|PubMed:29572483}., FUNCTION: [C-terminal domain]: Upon cleavage by CAPN1, functions as a scaffold in the nucleus for interacting partners such as GTF2I to promote FOS promoter activation. {ECO:0000250|UniProtKB:O88495, ECO:0000269|PubMed:19699797, ECO:0000269|PubMed:21858214, ECO:0000269|PubMed:31900622}.

Molecular Weight: 67.4 kDa

UniProt: [Q13585](#)

## Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months