

Datasheet for ABIN7562959

GRPR Protein (AA 1-384) (His tag)



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Overview

Quantity:	1 mg
Target:	GRPR
Protein Characteristics:	AA 1-384
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GRPR protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Grpr Protein expressed in mammalien cells.
Sequence:	<p>MAPNNCSHLN LDVDPFLSCN DTFNQSLSP KMDNWFHPGF IYVIPAVYGL IIVIGLIGNI</p> <p>TLIKIFCTVK SMRNVPNLFI SSLALGDL LVTCPVDAS KYLADRWLFG RIGCKLIPFI</p> <p>QLTSVGVSFV TLTALSADRY KAIVRPM DIQ ASHALMKICL KAALIWIVSM LLAIEAVFS</p> <p>DLHPFHVKDT NQTFISCAPY PHSNELHPKI HSMASFLVFY VIPLAISVY YYFIARNLIQ</p> <p>SAYNLPVEGN IHVKKQIESR KRLAKTVLVF VGLFAFCWLP NHVIYLYRSY HYSEVDT SML</p> <p>HFVTSICARL LAFTNSCVNP FALYLLSKSF RKQFNTQLLC CQPGLMNRSH STGRSTTCMT</p> <p>SFKSTNPSAT FSLINRNICH EGYV Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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Target Details

Target:	GRPR
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Alternative Name:	Grpr (GRPR Products)
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Background:	<p>Gastrin-releasing peptide receptor (GRP-R) (GRP-preferring bombesin receptor),FUNCTION: Receptor for gastrin-releasing peptide (GRP) (PubMed:1671171, PubMed:1707129, PubMed:9345264, PubMed:12526815, PubMed:26658875). Signals via association with G proteins that activate a phosphatidylinositol-calcium second messenger system, resulting in Akt phosphorylation (PubMed:26658875). Contributes to the regulation of food intake (PubMed:12176666). Contributes to the perception of prurient stimuli and transmission of itch signals in the spinal cord that promote scratching behavior, but does not play a role in the perception of pain (PubMed:28280205, PubMed:17653196, PubMed:26658875). Contributes primarily to nonhistaminergic itch sensation (PubMed:28280205). In one study, shown to act in the amygdala as part of an inhibitory network which inhibits memory specifically related to learned fear (PubMed:12526815). In another study, shown to contribute to disinhibition of glutamatergic cells in the auditory cortex via signaling on vasoactive intestinal peptide-expressing cells which leads to enhanced auditory fear memories (PubMed:34610277).</p> <p>Contributes to the induction of sighing through signaling in the pre-Botzinger complex, a cluster</p>
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Target Details

of several thousand neurons in the ventrolateral medulla responsible for inspiration during respiratory activity (PubMed:26855425). {ECO:0000269|PubMed:12176666, ECO:0000269|PubMed:12526815, ECO:0000269|PubMed:1671171, ECO:0000269|PubMed:1707129, ECO:0000269|PubMed:17653196, ECO:0000269|PubMed:26658875, ECO:0000269|PubMed:26855425, ECO:0000269|PubMed:34610277, ECO:0000269|PubMed:9345264}.

Molecular Weight: 43.2 kDa

UniProt: [P21729](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. 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