

Datasheet for ABIN7560416

SUCNR1 Protein (AA 1-317) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	SUCNR1
Protein Characteristics:	AA 1-317
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SUCNR1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Sucnr1 Protein expressed in mammalian cells.
Sequence:	<p>MAQNLSCENW LATEAILNKY YLSAFYAEF IFGLLGNTV VFGYLFCKMKN WNSSNVYLFN</p> <p>LSISDFAFLC TLPILIKSYA NDKGTYGDVL CISNRYVLHT NLYTSILFLT FISMDRYLLM</p> <p>KYPFREHFLQ KKEFAILISL AVWALVTLEV LPMLTFINSV PKEEGSNCID YASSGNPEHN</p> <p>LIYSLCLTLL GFLIPLSVMC FFYYKMVFL KRRSQQQATA LPLDKPQRLV VLAVVIFSIL</p> <p>FTPYHIMRNL RIASRLDSWP QGCTQKAIKS IYTLTRPLAF LNSAINPIFY FLMGDHYREM</p> <p>LISKFRQYFK SLTSFRT 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>
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:	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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	SUCNR1
Alternative Name:	Sucnr1 (SUCNR1 Products)
Background:	<p>Succinate receptor 1 (G-protein coupled receptor 91),FUNCTION: G protein-coupled receptor for succinate able to mediate signaling through Gq/GNAQ or Gi/GNAI second messengers depending on the cell type and the processes regulated (PubMed:15141213). Succinate-SUCNR1 signaling serves as a link between metabolic stress, inflammation and energy homeostasis (PubMed:27481132, PubMed:18820681, PubMed:30962591, PubMed:29735652). In macrophages, plays a range of immune-regulatory roles. During inflammation, succinate-SUCNR1 signaling may act as an anti-inflammatory mediator or boost inflammation depending on the inflammatory status of cells (PubMed:27481132, PubMed:30962591). Hyperpolarizes M2 macrophages versus M1 phenotype through Gq signaling by regulating the transcription of genes involved in immune function (By similarity). In activated M1 macrophages, plays a pro-inflammatory role in response to LPS (PubMed:27481132). Expressed in dendritic cells, where it is involved in the sensing of immunological danger and enhances immunity. Mediates succinate triggered intracellular calcium mobilization, induces migratory responses and acts in synergy with Toll-like receptor ligands for the production of proinflammatory cytokines as</p>

Target Details

well as an enhancement of antigen-specific activation of helper T cells (PubMed:18820681). In the small intestine, mediates the activation of tuft cells by dietary succinate and triggers type 2 immunity (PubMed:29735652). In adipocytes, plays an important role in the control of energy metabolism. In response to succinate, controls leptin expression in an AMPK-JNK-CEBPA-dependent as well as circadian clock-regulated manner (PubMed:36977414). In muscle tissue, is expressed in non-muscle cells and coordinates muscle remodeling in response to the succinate produced during exercise training in a paracrine manner (PubMed:32946811). In retina, acts as a mediator of vessel growth during retinal development. In response to succinate, regulates the production of angiogenic factors, including VEGF, by retinal ganglion neurons (By similarity). {ECO:0000250|UniProtKB:Q6IYF9, ECO:0000250|UniProtKB:Q9BXA5, ECO:0000269|PubMed:15141213, ECO:0000269|PubMed:18820681, ECO:0000269|PubMed:27481132, ECO:0000269|PubMed:29735652, ECO:0000269|PubMed:30962591, ECO:0000269|PubMed:32946811, ECO:0000269|PubMed:36977414}.

Molecular Weight: 36.8 kDa

UniProt: [Q99MT6](#)

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