

Datasheet for ABIN3095280

SCN9A Protein (AA 1761-1988) (His tag)**3** Images[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	SCN9A
Protein Characteristics:	AA 1761-1988
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SCN9A protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS), Functional Studies (Func)

Product Details

Sequence:	HHHHHHLENF SVATEESTEPL SEDDFEMFYE VWEKFDPDAT QFIEFSKLSD FAAALDPPLL IAKPNKVQLI AMDLPMVSGD RIHCLDILFA FTKRVLGESG EMDSLRSQME ERFMSANPS KVSYPEITTT LKRKQEDVSA TVIQRAYRRY RLRQNVKNIS SIYIKDGD RD DDLLNKKDMA FDNVNENSSP EKTDATSTT SPPSYDSVTK PDKEKYEQDR TEKEDKGKDS KESKK
Characteristics:	<ul style="list-style-type: none">• Made in Germany - from design to production - by highly experienced protein experts.• Human SCN9A Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>This made-to-order protein has already been successfully produced. Please let us know if you are interested in purchasing a smaller amount of this protein. We will check our stock and make you a customized quote in case we can provide this protein in a smaller amount.</p> <p>When you order this made-to-order protein you will only pay upon receipt of the correctly</p>

Product Details

folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered. The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. The concentration of the protein is calculated using its specific absorption coefficient. We use the ExPASy's protparam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in bacterial culture: 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Grade:	Crystallography grade

Target Details

Target:	SCN9A
Alternative Name:	SCN9A (SCN9A Products)
Background:	Mediates the voltage-dependent sodium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane, the protein forms a sodium-selective channel through which Na(+) ions may pass in accordance with their electrochemical gradient (PubMed:7720699, PubMed:17167479, PubMed:25240195, PubMed:26680203, PubMed:15385606, PubMed:16988069, PubMed:17145499, PubMed:19369487, PubMed:24311784). It is a tetrodotoxin-sensitive Na(+) channel isoform (PubMed:7720699). Plays a role in pain mechanisms, especially in the development of inflammatory pain (PubMed:17167479, PubMed:17145499, PubMed:19369487, PubMed:24311784). {ECO:0000269 PubMed:15178348, ECO:0000269 PubMed:15385606, ECO:0000269 PubMed:16988069, ECO:0000269 PubMed:17145499, ECO:0000269 PubMed:17167479, ECO:0000269 PubMed:19369487,

Target Details

ECO:0000269|PubMed:24311784, ECO:0000269|PubMed:25240195,
ECO:0000269|PubMed:26680203, ECO:0000269|PubMed:7720699}.

Molecular Weight: 27.1 kDa Including tag.

UniProt: [Q15858](#)

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.

Comment: In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.76 mg/mL

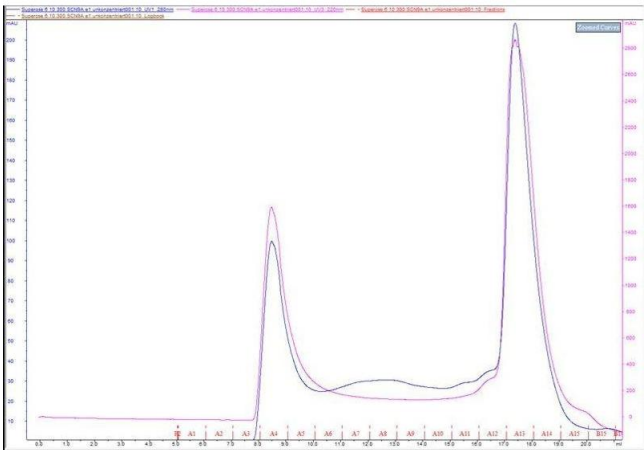
Buffer: 20 mM Hepes, pH 7.4; 150 mM NaCl

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)

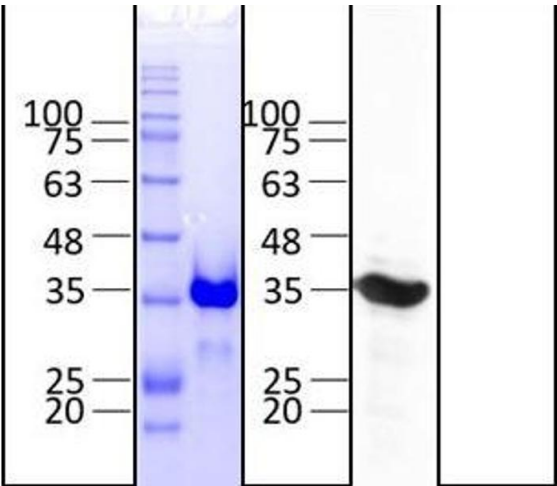


Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 1.



Image 2. „Crystallography Grade“ protein due to multi-step, protein-specific purification process



Western Blotting

Image 3.