

Recombinant Human SLC8A1 Protein (396-627 aa), His-tagged

Cat. No. SLC8A1-2278H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SLC8A1 Protein (396-627 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Partial.
Species	Human
Source	Yeast
ProteinLength	396-627 aa
Description	Mediates the exchange of one Ca ²⁺ ion against three to four Na ⁺ ions across the cell membrane, and thereby contributes to the regulation of cytoplasmic Ca ²⁺ levels and Ca ²⁺ -dependent cellular processes (PubMed:1374913, PubMed:11241183, PubMed:1476165). Contributes to Ca ²⁺ transport during excitation-contraction coupling in muscle. In a first phase, voltage-gated channels mediate the rapid increase of cytoplasmic Ca ²⁺ levels due to release of Ca ²⁺ stores from the endoplasmic reticulum. SLC8A1 mediates the export of Ca ²⁺ from the cell during the next phase, so that cytoplasmic Ca ²⁺ levels rapidly return to baseline. Required for normal embryonic heart development and the onset of heart contractions.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	27.4 kDa
AA Sequence	VNTEVTENDPVSKIFFEQGTYQCLENCGTVALTIIRGGDLTNTVFVDFRTEDGTANA

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GSDYEFTEGTVVFKPGDTQKEIRVGIIDDDIFEEDENFLVHLSNVKVSSEASEDGILEA
 NHVSTLACLGSPSTATVTIFDDDHAGIFTFEPPVTHVSESIGIMEVKVLRRTSGARGNVI
 VPKYKTIEGTARGGGEDFEDTCGELEFQNDIVKTISVKVIDDEEYEKNKTFLEIG

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

Gene Name SLC8A1 solute carrier family 8 (sodium/calcium exchanger), member 1 [Homo sapiens]

Official Symbol SLC8A1

Synonyms NCX1;

Gene ID 6546

mRNA Refseq NM_021097.2

Protein Refseq NP_066920.1

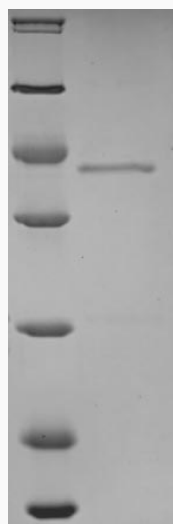
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MIM 182305

UniProt ID P32418



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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