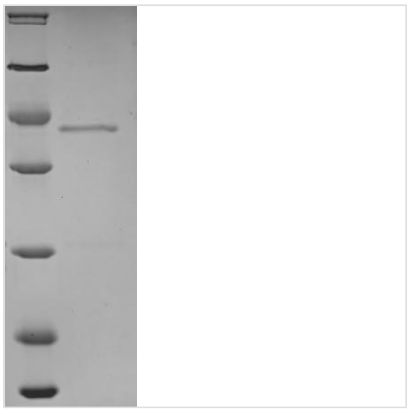
Recombinant Human Sodium/calcium exchanger 1 (SLC8A1), partial

Product Code	CSB-YP021723HU
Relevance	Mediates the exchange of one Ca2+ ion against three to four Na+ ions across the cell membrane, and thereby contributes to the regulation of cytoplasmic Ca2+ levels and Ca2+-dependent cellular processes (PubMed:1374913, PubMed:11241183, PubMed:1476165). Contributes to Ca2+ transport during excitation-contraction coupling in muscle. In a first phase, voltage-gated channels mediate the rapid increase of cytoplasmic Ca2+ levels due to release of Ca2+ stores from the endoplasmic reticulum. SLC8A1 mediates the export of Ca2+ from the cell during the next phase, so that cytoplasmic Ca2+ levels rapidly return to baseline. Required for normal embryonic heart development and the onset of heart contractions.
Abbreviation	Recombinant Human SLC8A1 protein, partial
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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P32418
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	VNTEVTENDPVSKIFFEQGTYQCLENCGTVALTIIRRGGDLTNTVFVDFRTEDG TANAGSDYEFTEGTVVFKPGDTQKEIRVGIIDDDIFEEDENFLVHLSNVKVSSE ASEDGILEANHVSTLACLGSPSTATVTIFDDDHAGIFTFEEPVTHVSESIGIMEV KVLRTSGARGNVIVPYKTIEGTARGGGEDFEDTCGELEFQNDEIVKTISVKVID DEEYEKNKTFFLEIG
Research Area	others
Source	Yeast
Target Names	SLC8A1
Protein Names	Na(+)/Ca(2+)-exchange protein 1 Solute carrier family 8 member 1
Expression Region	396-627aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	27.4kDa
Protein Length	Partial

Image



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

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.