Recombinant Human CANX Protein(Sumo Tag)

Catalog Number: PDEH100628

Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

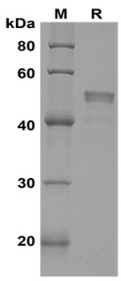
Description

Species	Human
Source	E.coli-derived Human CANX protein Met1-Ser273, with an N-terminal Sumo
Calculated MW	42.9 kDa
Observed MW	45 kDa
Accession	P27824-1
Bio-activity	Not validated for activity

Properties

Purity	> 90% as determined by reducing SDS-PAGE.
Endotoxin	< 10 EU/mg of the protein as determined by the LAL method
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis.

Data



SDS-PAGE analysis of Human CANX proteins, 2μg/lane of Recombinant Human CANX proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 45 KD

Background

Calnexin is a calcium-binding protein that belongs to the calreticulin family. It interacts with newly synthesized glycoproteins in the endoplasmic reticulum. Calnexin seems to play a major role in the quality control apparatus of the ER by the retention of incorrectly folded proteins. It may act in assisting protein assembly and/or in the retention within the ER of unassembled protein subunits. Associated with partial T-cell antigen receptor complexes that escape the ER of immature thymocytes, it may function as a signaling complex regulating thymocyte maturation. Additionally it may play a role in receptor-mediated endocytosis at the synapse.