

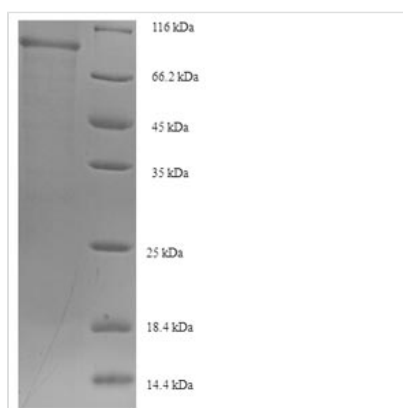


# Recombinant Human Sorting nexin-1 (SNX1)

<b>Product Code</b>	CSB-EP623817HU
<b>Relevance</b>	Involved in several stages of intracellular trafficking. Interacts with mbranes containing phosphatidylinositol 3-phosphate (PtdIns(3P)) or phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2) . Acts in part as component of the retromer mbrane-deforming SNX-BAR subcomplex. The SNX-BAR retromer mediates retrograde transport of cargo proteins from endosomes to the trans-Golgi network (TGN) and is involved in endosome-to-plasma mbrane transport for cargo protein recycling. The SNX-BAR subcomplex functions to deform the donor mbrane into a tubular profile called endosome-to-TGN transport carrier (ETC) (Probable). Can sense mbrane curvature and has in vitro vesicle-to-mbrane rodeling activity . Involved in retrograde endosome-to-TGN transport of lysosomal enzyme receptors (IGF2R, M6PR and SORT1) and Shiginella dysenteria toxin stxB. Plays a role in targeting ligand-activated EGFR to the lysosomes for degradation after endocytosis from the cell surface and release from the Golgi . Involvent in retromer-independent endocytic trafficking of P2RY1 and lysosomal degradation of protease-activated receptor-1/F2R . Promotes KALRN- and RHOG-dependent but retromer-independent mbrane rodeling such as lamellipodium formation; the function is dependent on GEF activity of KALRN . Required for endocytosis of DRD5 upon agonist stimulation but not for basal receptor trafficking .
<b>Abbreviation</b>	Recombinant Human SNX1 protein
<b>Storage</b>	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.
<b>Uniprot No.</b>	Q13596
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥ 90% as determined by SDS-PAGE.
<b>Sequence</b>	MASGGGGCSASERLPPFPGLEPESEGAAGGSEPEAGDSDTEGEDIFTGAAV VSKHQSPKITTSLLPINNGSKENGIHEEQDQEPQDLFADATVELSLDSTQNNQK KVLAKTLISLPPQEATNSSKPQPTYEELEEEEQEDQFDLTVGITDPEKIGDGMN AYVAYKVTTQTSLPLFRSKQFAVKRRFSDFLGLYEKLSEKHSQNGFIVPPPPEK SLIGMTKVKVGKEDSSSAEFLEKRRALERYLQRIVNHPTMLQDPDVREFLEK EELPRAVGTQTLSGAGLLKMFNKATDAVSKMTIKMNESDIWFEEKLQEVECEE QRLRKLHAVVETLVNHRKELALNTAQFAKSLAMLGSSSEDNTALSRALSQLAEV EEKIEQLHQEQANNDFFLLAELLSDYIRLLAIVRAAFDQRMKTWQRWQDAQAT LQKKREAEARLLWANKPDKLQQAQKDEILEWESRVVTQYERDFERISTVVRKEVI RFEKEKSKDFKNHVIKYLETLTLLYSQQQLAKYWEAFLPEAKAIS
<b>Research Area</b>	Signal Transduction
<b>Source</b>	E.coli



<b>Target Names</b>	SNX1
<b>Protein Names</b>	Recommended name: Sorting nexin-1
<b>Expression Region</b>	1-522aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal 6xHis-SUMO-tagged
<b>Mol. Weight</b>	75.1kDa
<b>Protein Length</b>	Full Length

**Image**


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

<b>Reconstitution</b>	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.
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