

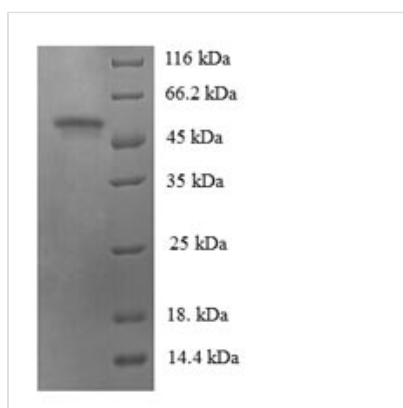


Recombinant Human Na (+)/H (+) exchange regulatory cofactor NHE-RF3 (PDZK1)

Product Code	CSB-EP722565HU
Relevance	A scaffold protein that connects plasma mbrane proteins and regulatory components, regulating their surface expression in epithelial cells apical domains. May be involved in the coordination of a diverse range of regulatory processes for ion transport and second messenger cascades. In complex with SLC9A3R1, may cluster proteins that are functionally dependent in a mutual fashion and modulate the trafficking and the activity of the associated mbrane proteins. May play a role in the cellular mechanisms associated with multidrug resistance through its interaction with ABCC2 and PDZK1IP1. May potentiate the CFTR chloride channel activity. Required for normal cell-surface expression of SCARB1. Plays a role in maintaining normal plasma cholesterol levels via its effects on SCARB1. Plays a role in the normal localization and function of the chloride-anion exchanger SLC26A6 to the plasma mbrane in the brush border of the proximal tubule of the kidney. May be involved in the regulation of proximal tubular Na+-dependent inorganic phosphate cotransport therefore playing an important role in tubule function .
Abbreviation	Recombinant Human PDZK1 protein
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.	Q5T2W1
Alias	CFTR-associated protein of 70 kDaNa(+)/H(+) exchanger regulatory factor 3Na/Pi cotransporter C-terminal-associated protein 1 ;NaPi-Cap1;PDZ domain-containing protein 1Sodium-hydrogen exchanger regulatory factor 3
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥ 90% as determined by SDS-PAGE.
Sequence	MTSTFNPRECKLSKQEGQNYGFFLRIEKDTEGHLVRRVVEKCSPAEKAGLQDG DRVLRINGVFVDKEEHMQVVDLVRKSGNSVTLLVLDGDSYEKAVKTRVDLDEL GQSQKEQGLSDNILSPVMNGGVQTWTQPRLCYLVEGGSYGFSLKTVQGKK GVYMTDITPQGVAMRAGVLADDHLIEVNGENVEDASHEEVVEKVKKSGSRVM FLLVDKETDKRHVEQKIQFKRETASLKLPHQPRIVEMKKGSNGYGFYLRAGS EQKGQIIKDIDSGSPAEEAGLKNNDLVVAVNGESVETLDHDSVEMIRKGGDQ TSLLVVDKETDNMYRLAHFSPFLYYQSQELPNGSVKEAPAPTPTSLEVSSPPD TTEEVDHKPKLCRLAKGENGYGFHLNAIRGLPGSFIKEVQKGGPADLAGLEDE DVIIEVNGVNVLDPEYKVVDRIQSSGKNVTLLVCGKKAYDYFQAKKIPIVSSLA DPLDTPPDSKEGIVVESNHDSHMAKERAHSTASHSSSSEDTEM
Research Area	Signal Transduction



Source	E.coli
Target Names	PDZK1
Expression Region	1-519aa
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	61.1kDa
Protein Length	Full Length

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 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.