

For Research Use Only

Recombinant Human Neprilysin/CD10 protein (rFc Tag)



Catalog Number: Eg2572

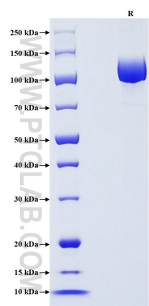
Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/µg protein, LAL method Source: HEK293-derived Human Neprilysin protein Tyr52-Trp750 (Accession# P08473) with a rabbit IgG Fc tag at the N-terminus. GeneID: 4311 Accession: P08473 Predicted Molecular Mass: 107.0 kDa SDS-PAGE: 105-130 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	CD10, also known as neprilysin, membrane metallo-endopeptidase (MME), neutral endopeptidase (NEP), or common acute lymphoblastic leukemia antigen (CALLA), is a 100-kDa type II transmembrane glycoprotein belonging to peptidase M13 family. Among hematopoietic cells, CD10 is expressed on granulocytes, B cell precursors, mature germinal center B cells, a subset of immature thymocytes. CD10 is also expressed on a variety of nonhematopoietic cell types, including bronchial epithelial cells, cultured fibroblasts, bone marrow stromal cells, renal proximal tubular epithelial cells, breast myoepithelium, biliary canaliculi. CD10 is a cell surface peptidase that cleaves peptide bonds on the amino side of hydrophobic amino acids and inactivates a variety of physiologically active peptides. Loss or decreases in CD10 expression have been reported in a variety of malignancies.		
References	1. B Lu, et al. (1995) J Exp Med. 181(6):2271-5. 2. MA Shipp, et al. (1993) Blood. 82(4):1052-70. 3. James R Cook, et al. (2003) Mod Pathol. 16(9):879-85. 4. Makoto Sumitomo, et al. (2005) Biochim Biophys Acta. 1751(1):52-9.		
Synonyms	MME, Neprilysin, Atriopeptidase, CALLA, CD10		

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Human Neprilysin was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.