Human CD13/ANPEP Protein

Cat. No. ANP-HM101

Description

Source	Recombinant Human CD13/ANPEP Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Lys69-Lys967.
Accession	P15144
Molecular Weight	The protein has a predicted MW of 103.8 kDa. Due to glycosylation, the protein migrates to 115-130 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC

Formulation and Storage

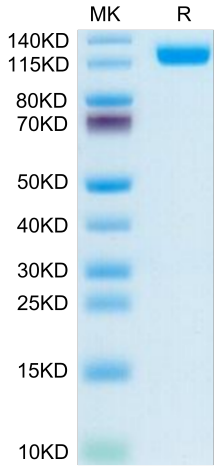
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-20 to -80°C for 3-6 months in unopened state after reconstitution.2-8°C for 2-7 days after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

CD13/aminopeptidase N is a widely expressed ectoenzyme with multiple functions. As an enzyme, CD13 regulates activities of numerous cytokines by cleaving their N-terminals and is involved in Ag processing by trimming the peptides bound to MHC class II. Independent of its enzymatic activity, cell membrane CD13 functions by cross-linking-induced signal transduction, regulation of receptor recycling, enhancement of FcγR-mediated phagocytosis, and acting as a receptor for cytokines.

Assay Data

Tris-Bis PAGE



Human CD13/ANPEP on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

For Research Use Only

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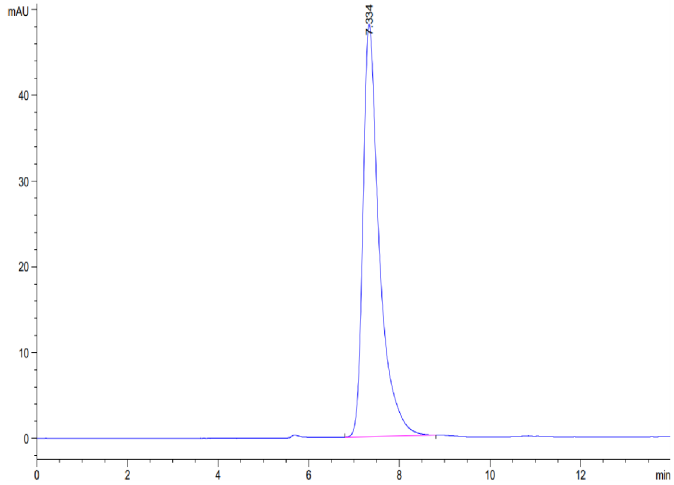

The purity of Human CD13/ANPEP is greater than 95% as determined by SEC-HPLC.

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