

# Human CD13/ANPEP Protein

Cat. No. ANP-HM101



## Description

<b>Source</b>	Recombinant Human CD13/ANPEP Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Lys69-Lys967.
<b>Accession</b>	P15144
<b>Molecular Weight</b>	The protein has a predicted MW of 103.8 kDa. Due to glycosylation, the protein migrates to 115-130 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.1 EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

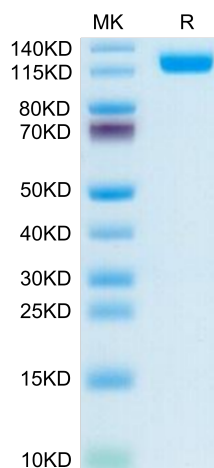
<b>Formulation</b>	Supplied as 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## 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 Fc $\gamma$ R-mediated phagocytosis, and acting as a receptor for cytokines.

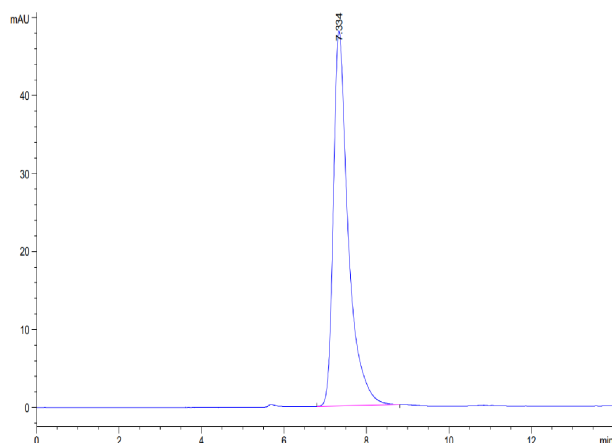
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



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