

Recombinant Human CD10/Nepriylsin Protein (His Tag)

Catalog Number:PKSH033583



Note: Centrifuge before opening to ensure complete recovery of vial contents.

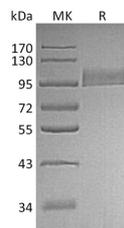
Description

Synonyms	Nepriylsin;Atriopeptidase;Common acute lymphocytic leukemia antigen;CALLA;Enkephalinase;Neutral endopeptidase 24.11;NEP;Neutral endopeptidase;Skin fibroblast elastase;SFE;CD10;MME;EPN;CALLA
Species	Human
Expression Host	HEK293 Cells
Sequence	Tyr52-Trp750
Accession	P08473
Calculated Molecular Weight	80.9 kDa
Observed molecular weight	94-100 kDa
Tag	N-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Store at -20°C , stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at -20°C .
Formulation	Supplied as a $0.2\ \mu\text{m}$ filtered solution of PBS, pH7.4.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Nepriylsin/CD10(NEP) is a zinc metallopeptidase expressed at the cell surface of a variety of cells. The functions is both as an endopeptidase with a thermolysin-like specificity and as a dipeptidyl-carboxypeptidase. NEP has been shown to be involved in the degradation of enkephalins in the mammalian brain and the inactivation of circulating atrial natriuretic peptide. NEP has also been identified as the common acute lymphocytic leukemia antigen (CALLA), and is expressed on the surface of lymphocytes in some disease states. These and other observations have resulted in considerable interest in NEP as a target for analgesics and antihypertensive drugs. NEP is also a major degrading enzyme of amyloid β peptide ($\text{A}\beta$) in the brain, indicating that down-regulation of NEP activity, which could be caused by aging, can contribute to the development of Alzheimer's disease by promoting $\text{A}\beta$ accumulation.

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