Neprilysin (human), (recombinant) (His-tag)

Highly active

Neprilysin is a glycosylated zinc endopeptidase whose physiological targets include bradykinin, glucagon, GLP-1, and neuropeptides. Preferential cleavage of polypeptides between hydrophobic residues, particularly with Phe or Tyr at P1.

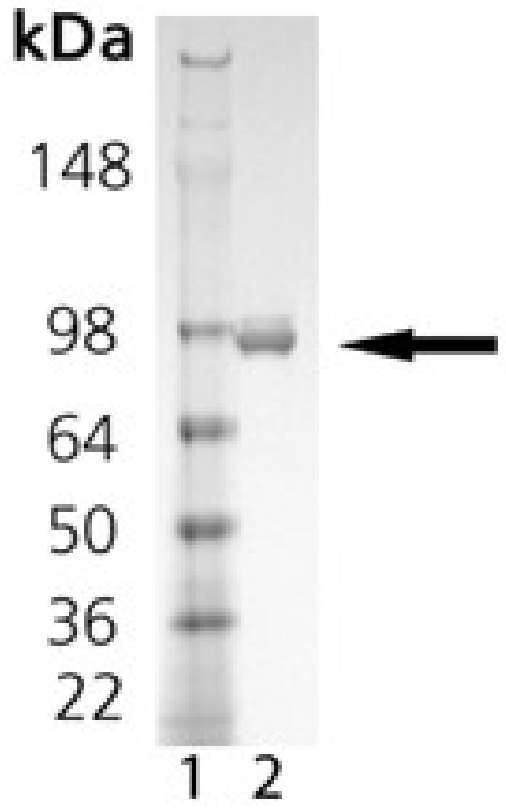
Neprilysin is an integral plasma membrane (or secreted soluble) protease that has has a broad expression pattern, but is most abundant in the kidney. Due to its involvement in cancer, Alzheimer's and Parkinson's diseases, hypertension, diabetes, and pain, it is an important research target.

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BML-SE532-0010	10µg

Manuals, SDS & CofA View Online »



SDS-PAGE Analysis: Lane1: MWM; Lane 2: 1.0 µg of purified Neprilysin protein.

Handling & Storage

Use/Stability	Stable on ice for at least 1h. Do not freeze in dilute form.
Handling	Avoid freeze/thaw cycles. After opening, prepare aliquots and store at -80°C.
Long Term Storage	-80°C
Shipping	Dry Ice

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	NEP, Neutral endopeptidase 24.11, Enkephalinase, CALLA, Common acute lymphoblastic leukemia antigen, CD10
Application Notes	Useful tool to study enzyme kinetics, cleave target substrates, and screen for inhibitors.
Formulation	Liquid. In 50mM TRIS, pH 8.0, containing 300mM sodium chloride and 20% glycerol.
MW	80.7 kDa (calculated) / ~85 kDa (glycosylated form on SDS-PAGE)
Purity	≥95% (SDS-PAGE)
Purity Detail	Purified as the glycosylated soluble form.
Sequence	NEP from human cDNA, transcript variant 1, aa 53-750 (D^{53} – W^{750}; Identical to GeneBank accession NM_000902) is fused at the N-terminus to a His-tag.
Source	Produced in Sf9 insect cells. Produced in a baculovirus expression system.
UniProt ID	P08473

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