BioVendor - Laboratorní medicína a.s.
Karásek 1767/1
621 00 Brno-Řečkovice a Mokrá Hora

Date of issue: 20.08.2018

PRODUCT DATASHEET

Renin Receptor Human E. coli

Cat. No.: RD172264100
Type: Recombinant protein
Size: 0.1 mg
Source: E. coli
Species: Human

Description
Total 296 AA. MW: 33 kDa (calculated). N-Terminal His-tag (10 extra AA). UniprotKB acc.no. O75787

Other names
ATPase H(+)-transporting lysosomal accessory protein 2, ATPase H(+)-transporting lysosomal-interacting protein 2, ER-localized type I transmembrane adaptor, Embryonic liver differentiation factor 10, N14F, Renin/prorenin

Introduction to the molecule

Research topic
Cardiovascular disease, Diabetology - Other Relevant Products, Renal disease

Amino Acid sequence
MKHHHHHHAS NEFSILKSPG SVVFRNGNWP IPGERIPDVA ALSMGFSVKE DLSWPGLAVG NLFHRPRATV MVMVKGVNKL ALPPGSVISY PLENAVPFSL DSVANSIHSL FSEETPVVLQ LAPSEERVYM VGKANSVFED LSVTLRQLRN RLFQENSVLS SLPLNSLSRN NEVDLLFLSE LQVLHDISSL LSRHKHLAKD HSPDLYSLEL AGLDEIGKRY GEDSEQFRDA SKILVDALQK FADDMYSLYG GNAVVELVTV KSFDTSLIRK TRTILEAKQA KNPASPYNLA YKYNFE

Purity
Purity as determined by densitometric image analysis: > 90%

Endotoxin
< 1.0 EU/ug

Formulation:
Filtered (0.4 µm) and lyophilized in 0.5 mg/mL in 0.05 M Acetate buffer pH=4.0 + 5% (w/v) trehalose

Reconstituion:
Add 0.1 M Acetate buffer pH4 to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely at 37°C. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10 µg/mL. In higher concentrations the solubility of this antigen is limited. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Shipping
At ambient temperature. Upon receipt, store the product at the temperature recommended below.

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Storage, Stability/Shelf Life
Store the lyophilized protein at –80 °C. Lyophilized protein remains stable until the expiry date when stored at –80 °C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at –80 °C for long term storage. Reconstituted protein can be stored at 4 °C for a week.

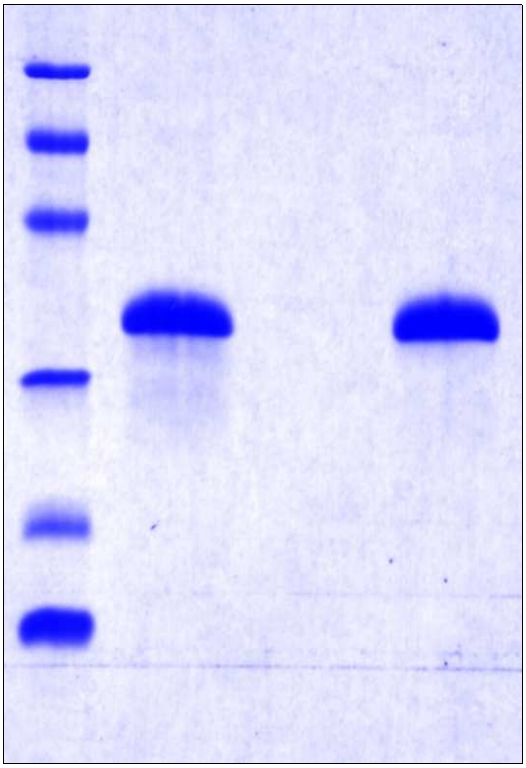
Quality control
BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

LAL to determine quantity of endotoxin.

Applications
ELISA, Western blotting

Note
This product is intended for research use only.



14% SDS-PAGE separation of Human Renin Receptor
1. M.W. marker – 14, 21, 31, 45, 66, 97 kDa
2. reduced and boiled sample, 2.5 µg / lane
3. non-reduced and non-boiled sample, 2.5 µg / lane

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