

Recombinant Human Relaxin-1/RLN1 Protein (His Tag)

Catalog Number:PKSH031058



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

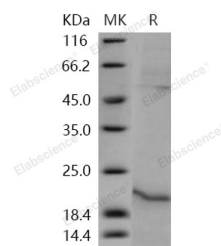
Description

Synonyms	bA12D24.3.1;bA12D24.3.2;H1;H1RLX;RLN1;RLXH1
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Cys 185
Accession	NP_008842.1
Calculated Molecular Weight	20.0 kDa
Observed molecular weight	20 kDa
Tag	C-His

Properties

Purity	> 82 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 82 % as determined by reducing SDS-PAGE.

Background

Relaxin-1, also known as Prorelaxin H1 and RLN1, is a secreted protein which belongs to the insulin family. It is a peptide hormone that was first described in 1926 by Frederick Hisaw. Since its discovery as a reproductive hormone 80 years ago, relaxin has been implicated in a number of pregnancy-related functions involving extracellular matrix (ECM) turnover and collagen degradation. It is now becoming evident that relaxin's ability to reduce matrix synthesis and increase ECM degradation has important implications in several nonreproductive organs, including the heart, lung, kidney, liver and skin. The relaxin-like peptide family belongs in the insulin superfamily and consists of 7 peptides of high structural but low sequence similarity; relaxin-1 (RNL1), relaxin-2 (RNL2) and relaxin-3 (RNL3), and the insulin-like (INSL) peptides, INSL3, INSL4, INSL5 and INSL6. The functions of relaxin-3, INSL4, INSL5, INSL6 remain uncharacterised. Relaxin-1

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/ RLN1 is an ovarian hormone that acts with estrogen to produce dilatation of the birth canal in many mammals. Relaxin-1 / RLN1 may be involved in remodeling of connective tissues during pregnancy, promoting growth of pubic ligaments and ripening of the cervix. Relaxin and estrogen appear to play protective roles against airway fibrosis, airway SM thickening, and cardiac hypertrophy. Relaxin may also provide a means to regulate excessive collagen deposition during kidney development and in diseased states characterized by renal fibrosis.

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