

Datasheet for ABIN7317519
Relaxin 1 Protein (RLN1) (His tag)



[Go to Product page](#)

Overview

Quantity:	50 µg
Target:	Relaxin 1 (RLN1)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Relaxin 1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Relaxin-1/RLN1 Protein (His Tag)
Sequence:	Met 1-Cys 185
Characteristics:	A DNA sequence encoding the human RLN1 (NP_008842.1) (Met 1-Cys 185) was fused with a polyhistidine tag at the C-terminus.
Purity:	> 82 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	Relaxin 1 (RLN1)
Alternative Name:	Relaxin-1/RLN1 (RLN1 Products)
Background:	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

Target Details

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 / 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.

Synonym: bA12D24.3.1;bA12D24.3.2;H1;H1RLX;RLN1;RLXH1

Molecular Weight: 20 kDa

NCBI Accession: [NP_008842](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: 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.