

## RLN1/Relaxin-1 Protein, Human (HEK293, His)

Cat. No.:	HY-P77176
Synonyms:	Prorelaxin H1; RLN1; RLXH1
Species:	Human
Source:	HEK293
Accession:	P04808 (V23-C185)
Gene ID:	6013
Molecular Weight:	Approximately 20 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	RLN1, also known as Relaxin-1, is a vital ovarian hormone that collaborates with estrogen, particularly in numerous mammals, to induce the dilation of the birth canal. This hormone plays a crucial role in the remodeling of connective tissues during pregnancy, facilitating the growth of pubic ligaments and the ripening of the cervix. The functional form of RLN1 exists as a heterodimer, comprised of a B chain and an A chain, intricately linked by two disulfide bonds. Through its intricate molecular structure, RLN1 contributes significantly to the intricate processes associated with pregnancy, influencing the adaptive changes in the female reproductive system to support a successful birth.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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