

## Human Relaxin-2, His-Tag, liquid

Human Relaxin-2, recombinant

Synonyms: Prorelaxin H2, RLN2, H2, RLXH2, H2-RLX

*PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING*

Size	Order #	Lot #	Expiry Date
5 µg	1997.950.005		
25 µg	1997.950.025		
250 µg	1997.950.250		
1 mg	1997.950.199		

Please enquire for bulk quantities and other vial sizes

### Description

Recombinant human Relaxin-2, His-Tag liquid is a nonglycosylated 20.7 kDa disulfide linked heterodimeric protein consisting of 161 amino acids fused to a 23aa His-Tag at the N-terminus. It consists of amino acids 25 to 185 therefore Relaxin B-chain (29aa), natural connecting Peptide (101aa), Relaxin A-chain (24aa). Relaxin-2 is a peptide hormone structurally related to insulin, which is expressed in the placenta, decidua, prostate, and in the ovary during pregnancy. Of the three known relaxin genes, Relaxin-2 is the only relaxin known to circulate in the blood. Relaxin-2 binds specifically to the LGR7 and LGR8 receptors, previously identified as an "orphan" G protein coupled receptors. Signaling by Relaxin-2 through its target receptors enhances the growth of pubic ligaments and ripening of the cervix during birth.

- **Biological Activity** No suitable assay available
- **Source** *E. Coli*
- **Purity** ≥ 85 % (SDS-PAGE, HPLC)
- **Endotoxin level** ≤ 0.1ng/µg (≤ 1EU/µg)
- **Stabilizer** Glycerol, 10%, Urea (0.4M)
- **Buffer** Tris-HCl (20mM, pH 8.0)\*
- **Physical state** Sterile filtered, liquid (1mg/ml)

### Biological Activity

Data not available.

### Stability

The undiluted product can be stored at 4°C for up to 4 weeks and at -20°C until the expiry date. For long term storage we recommend to add 0,1% HSA and store in suitable working aliquots at -20°C to -80°C. **Please avoid repeated freeze-thaw cycles.**

### Amino Acid Sequence

MGSSHHHHHH SGLVPRGSH MGSDSWMEEV IKLCGRELVR AQIAICGMST WSKRSLSQED APQTPRPVAE  
 IVPSFINKDT ETINMMSEFV ANLPQELKLT LSEMQPALPQ LQQHVPVLKD SLLLFEEFKK LIRNRQSEAA  
 DSSPSELKYL GLDTHSRKKR QLYSALANKC CHVGCTKRSL ARFC

**Usage:** For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

\*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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