Human Relaxin-2

Human Relaxin-2, recombinant

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

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order#	Lot#	Expiry Date
25 µg	1996.950.025		
1 mg	1996.950.199		

Please enquire for bulk quantities and other vial sizes.

Description

Recombinant human Relaxin-2 is a nonglycosylated 6.0 kDa disulfide linked heterodimeric protein consisting of a 24 amino acid A-chain and a 29 amino acid B-chain. 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** ≥ 98 % (SDS-PAGE, HPLC)
- **Endotoxin Level** < 0.1 ng/µg of protein (< 1 EU/µg)
- **Stabilizer** None
- **Buffer** None*
- **Physical State** Sterile filtered, lyophilized

Biological Activity

Data not available. Please also check 1997.950.xyz or 1997.952.xyz for use in cell culture.

Reconstitution

We recommend a quick spin followed by reconstitution in sterile filtered water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1 % HSA, order number: 2835.955.xyz or 2835.958.xyz) and store in working aliquots at -20°C to -80°C.

Stability

The lyophilized protein is stable at room temperature for up 1 month and at 4°C up to 6 months. Working aliquots stored with a carrier protein are stable for at least 12 months at -20°C to -80°C. Please avoid repeated freeze-thaw cycles.

Amino Acid Sequence

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A-Chain: QLYSALANKC CHVGCTKRSL ARFC
B-Chain: DSWMEEVIKL CGRELVRAQI AICGMSTWS
Interchain disulfid bonds: 35 <-> 172 und 47 <-> 185
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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.

ORDERING
Tel.: +49 40 4320 8448 - 0
order@active-bioscience.de
www.active-bioscience.de

TECHNICAL SUPPORT
Tel.: +49 40 4320 8448 - 11
support@active-bioscience.de

Active Bioscience GmbH
Oberaltenallee 8
D-22081 Hamburg
HRB 98170 Amtsgericht Hamburg