

Recombinant human Relaxin-2 protein

Catalog Number: ATGP3545

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

25-185aa

UniProt No.

P04090

NCBI Accession No.

NP_604390

Alternative Names

Prorelaxin H2 isoform 1, RLN2, bA12D24.1.1, bA12D24.1.2, H2, H2-RLX, RLXH2

PRODUCT SPECIFICATION

Molecular Weight

19.3 kDa (170aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 85% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

RLN2, as known as prorelaxin H2 isoform 1, belongs to the insulin gene superfamily. This family is produced by the ovary, and targets the mammalian reproductive system to ripen the cervix, elongate the pubic symphysis and inhibit uterine contraction. It may have additional roles in enhancing sperm motility, regulating blood pressure, controlling heart rate and releasing oxytocin and vasopressin. It is 18 kDa in size and 185 aa in length.

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It contains a 24 aa signal sequence, a 3.3 kDa, 29 aa B domain, a 106 aa C (or connecting) domain, and a C-terminal, 2.7 kDa, 24 aa A domain. Recombinant human RLN2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

ADPDSWMEEV IKLCGRELVR AQIAICGMST WSKRSLSQED APQTPRPVAE IVPSFINKDT ETINMMSEFV ANLPQELKLT
LSEMQPALPQ LQQHVPVLKD SSLLFEEFKK LIRNRQSEAA DSSPSELKYL GLDTHSRKKR QLYSALANKC CHVGCTKRSL
ARFCHHHHHH

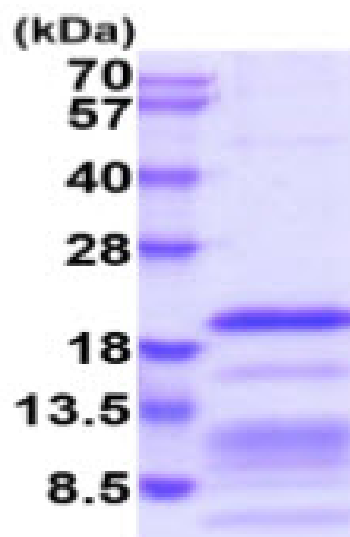
General References

Ng TM., et al, (2016) Cardiol Rev. 24:194-204.

Sherwood OD., et al, (2004) Endocr. Rev. 25:205-234.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)