9051 Mira Mesa Blvd, #910094
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RLN3 Human

Relaxin-3 Human Recombinant
RCP1877

Product Overview

Name	RLN3 Human
Description	
Relaxin-3 Human Recombinant	
Accession (Primary)	Q8WXF3
Synonyms	
Relaxin 3, Prorelaxin H3, RXN3, Insl7, ZINS4, H3, Relaxin 3 (H3), Relaxin-3, RLN3.	
Introduction	
Relaxin-3 (RLN3) belongs to the relaxin family. Relaxins are endocrine and autocrine/paracrine hormones. Relaxin, which is produced by the ovary, targets the mammalian reproductive system to ripen the cervix, elongate the pubic symphysis and inhibit uterine contraction. Unlike human Relaxins 1 and 2, Relaxin 3 does not seem to have a role in reproduction; however it is involved in stress response in the brain stem. RLN3 is the only known ligand for the G-protein-coupled receptor GPCR135, titled RXFP3. In addition, RLN3 binds the LGR7 (RXFP1) receptor, however with lower affinity than Relaxin-2. Even though binding of RLN3 to LGR7 increases intracellular cAMP, binding to GPCR135 suppresses cAMP accumulation, indicating coupling to Gi, Go, or Gz by this receptor.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from a 0.2 µm filtered solution in Acetonitrile and TFA.	
Stability	
Lyophilized RLN3 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Relaxin-3 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	
A chain: DVLAGLSSSC CKWGCSKSEI SSLC. B chain: RAAPYGVRLCG REFIRAVIFT CGGSRW.	

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Biological Activity

The ED 50 , as measured by cAMP accumulation in human THP-1 cells, is less than 17.5ng/ml.

Solubility

It is recommended to reconstitute the lyophilized RLN3 in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

RLN3 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q8WXF3)