Active Recombinant Human Insulin-Like 3 (Leydig cell)

Cat. No. INSL3-384H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RecombinantHuman INSL3 protein was expressed in E. coli. Ala106-Tyr131(A chain) & Leu21-Ala55.
Species	Human
Source	E.coli
ProteinLength	106-131;21-55 a.a.
Description	INSL3 isa member of the insulin/relaxin superfamily. INSL3 is a secreted proteinproduced in high amounts by testicular Leydig cells, and in lower amounts by ovarianfollicular theca interna cells. As with other insulin/relaxin superfamilymembers, human INSL3 is synthesized as a preprohormone. The Prepro INSL3precursor is 131 amino acids (aa) in length. It is processed by a prohormoneconvertase to remove a 20 aa signal sequence and a 47 aa internal pro-, or C-peptidethat separates a 35 aa N-terminal B chain from a 26 aa C-terminal A chain.
Form	Lyophilizedfrom a 0.2 um filtered solution in PBS.
N-terminalSequence	Ala106 (A chain)& Leu21(B chain)
MolecularWeight	2.8 kDa (A chain),3.3 kDa (B chain)
Activity	Measuredby its ability to induce cAMP accumulation in human RXFP2 transfected HEK293human embryonic kidney cells. The ED50 for this effect is typically 12.5-50

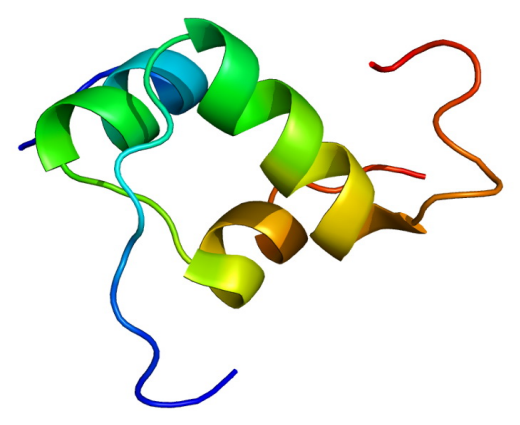
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	pg/mL.
Endotoxin Level	<1.0EU per 1μg of the protein by the LAL method.
Purity	>95%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstituteat 100μg/mL in sterile PBS.
Storage	Use amanual defrost freezer and avoid repeated freezethaw cycles. 12 months from date of receipt, -20 to -70°C as supplied.1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months,-20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	INSL3 insulin-like 3 (Leydigcell) [Homo sapiens]
Official Symbol	INSL3
Synonyms	INSL3; insulin-like3 (Leydig cell); RLF; RLNL; insulin-like 3; ley-I-L; relaxin-likefactor b; leydig insulin-like peptide; leydig insulin -like hormone
Gene ID	3640
mRNA Refseq	NM_005543
Protein Refseq	NP_005534
MIM	146738
UniProt ID	P51460

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Chromosome Location	19p13.2-p12
Pathway	Class A/1 (Rhodopsin-like receptors);Cytokine Signaling in Immune system; G alpha (s) signalling events; GPCRdownstream signaling; GPCR ligand binding; Immune System; Interleukinreceptor SHC signaling; Interleukin-2 signaling; Interleukin-3, 5 and GM-CSFsignaling; Interleukin-7 signaling; Peptide ligand-binding receptors; Relaxinreceptors; Signal Transduction; Signaling by GPCR; Signaling by Interleukins
Function	G-protein coupled receptor binding; hormoneactivity; insulin receptor binding; receptor binding
PDBrendering based on 2h8b.	

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