



LD Biopharma, Inc.
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- PRODUCT DATA SHEET -

Name of Product: Recombinant Human Ronin-11R Protein
Catalog Number: hTF-0076
Manufacturer: LD Biopharma, Inc.

Introduction

Human Ronin gene encodes protein which contains a THAP domain, which is a conserved DNA-binding domain that has striking similarity to the site-specific DNA-binding domain (DBD) of *Drosophila* P element transposases.

Recombinant human Ronin protein was constructed with C-terminal tag of 11 arginine domain, which efficiently delivery protein intracellularly. This protein was expressed in *E. coli* as inclusion bodies, refolded using our unique “temperature shift inclusion body refolding” technology and chromatographically purified. Incubating this protein in culture mediums at concentration of 2-8 µg/ml may be used for studying of ES or other lineage differentiation.

Gene Symbol: Ronin (THAP11)
Accession Number: NP_065190
Species: Human
Size: 40 µg / Vial
Composition: 0.4 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, arginine, DTT and Glycerol.
Storage: In Liquid. Keep at -20°C for long term storage. Product is stable at 4 °C for at least 7 days.

Key References

Dejosez, M., et al. *Ronin is essential for embryogenesis and the pluripotency of mouse embryonic stem cells*. Cell 133 (7), 1162-1174 (2008)

Hongyan Zhou, et al. *Generation of induced pluripotent stem cells using recombinant protein*. Cell Stem Cell. Vol 4. Issue 5: 381-384 (2009)

Applications



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1. Protein transduction for human HSC cell differentiation.
2. Active recombinant protein, may be used for ELISA based DNA/Protein binding assay.
3. As specific protein substrate for kinase assay.
4. Immunogen for specific antibody production.

Quality Control

1. Purity: > 90% by SDS-PAGE.
2. DNA binding assay: Not tested yet.

Recombinant Protein Sequence

29aa_Tag_GGEFPGFTCCVPGCYNNSHRDKALHFYTFPKDAELRRLWLKNVSRAGVSGCFSTFQ
PTTGHRLCSVHFQGGRKTYTVRVPTIFPLRGVNERKVARRPAGAAAARRRQQQQQQQQQQQQQ
QQQQQQQQQQQQQQSSPSASTAQTALQPNLVSASAAVLLTLQATVDSSQAPGSVQPAPITPT
GEDVKPIDLTVQVEFAAAEGAAAAAASELQAATAGLEAAECPMGPQLVVVGEEGFPDTGSDHS
YSLSSGTTEEELLRKLNEQRDILALMEVKMKEMKGSIRHLRLTEAKLREELREKDRLLAMAVIR
KKHGML**LEESGGGSPGRRRRRRRRRR**