9051 Mira Mesa Blvd, #910094
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HAPLN1 Human, HEK

Hyaluronan And Proteoglycan Link Protein 1 Human Recombinant, HEK
RCP0989

Product Overview

Name	HAPLN1 Human, HEK

Description

Hyaluronan And Proteoglycan Link Protein 1 Human Recombinant, HEK

Accession (Primary)	P10915

Synonyms

Hyaluronan and proteoglycan link protein 1 precursor, CRTL1, Cartilage-linking protein 1, Cartilage-link protein, Proteoglycan link protein, HAPLN1.

Source

HEK293 Cells.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

HAPLN1 protein solution (0.25mg/ml) containing 20% Glycerol and Phosphate-Buffered Saline (pH 7.4).

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Amino acid sequence

DHLSDNYTLD HDRAIHIQAE NGPHLLVEAE QAKVFSHRGG NVTLPCKFYR DPTAFGSGIH KIRIKWTKLT SDYLKEVDVF VSMGYHKKTY GGYQGRVFLK GGSDSDASLV ITDLTLEDYG RYKCEVIEGL EDDTVVVALD LQGVVFPYFP RLGRYNLNFH EAQQACLDQD AVIASFDQLY DAWRGGLDWC NAGWLSDGSV QYPITKPREP CGGQNTVPGV RNYGFWDKDK SRYDVFCFTS NFNGRFYYLI HPTKLTYDEA VQACLNDGAQ IAKVGQIFAA WKILGYDRCD AGWLADGSVR YPISRPRRRC SPTEAAVRFV GFPDKKHKLY GVYCFRAYN H HHHHH .

Biological Activity

The ED50 range is ≤ 1 ug/ml and is measured by its binding ability in a functional ELISA with Hyaluronic acid.

Background

Bibliography: Armingol, E., Officer, A., Harismendy, O., & Lewis, N. E. (2020). Deciphering cell-cell interactions and

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communication from gene expression. Nature Reviews Genetics, 21(2), 71-88. Bonnans, C., Chou, J., & Werb, Z. (2014). Remodelling the extracellular matrix in development and disease. Nature Reviews Molecular Cell Biology, 15(12), 786-801. Bönnemann, C. G. (2011). The collagen VI-related myopathies: muscle meets its matrix. Nature Reviews Neurology, 7(7), 379-390. Choi, H., Lee, R. H., Bazhanov, N., Oh, J. Y., & Prockop, D. J. (2011). Anti-inflammatory protein TSG-6 secreted by activated MSCs attenuates zymosan-induced mouse peritonitis by decreasing TLR2/NF-κB signaling in resident macrophages. Blood, 118(2), 330-338. Lesley, J., Hyman, R., & Kincade, P. W. (1993). CD44 and its interaction with extracellularmatrix. Advances in Immunology, 54, 271-335. Sherman, L. S., Rizvi, T. A., Karyala, S., & Ratner, N. (2000). CD44 enhances neuregulin signaling by Schwann cells. The Journal of Cell Biology, 150(5), 1071-1084. Toole, B. P. (2004). Hyaluronan: from extracellular glue to pericellular cue. Nature Reviews Cancer, 4(7), 528-539. Yamada, Y., Itano, N., Narimatsu, H., Kudo, T., Morozumi, K., Hirohashi, S., ... & Kimata, K. (2004). Elevated transcript level of hyaluronan synthase1 gene correlates with poor prognosis of human colon cancer. Clinical & Experimental Metastasis, 21(1), 57-63.

Precautions

HAPLN1 Human, HEK is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P10915)

Background

Bibliography: Armingol, E., Officer, A., Harismendy, O., & Lewis, N. E. (2020). Deciphering cell-cell interactions and communication from gene expression. Nature Reviews Genetics, 21(2), 71-88. Bonnans, C., Chou, J., & Werb, Z. (2014). Remodelling the extracellular matrix in development and disease. Nature Reviews Molecular Cell Biology, 15(12), 786-801. Bönnemann, C. G. (2011). The collagen VI-related myopathies: muscle meets its matrix. Nature Reviews Neurology, 7(7), 379-390. Choi, H., Lee, R. H., Bazhanov, N., Oh, J. Y., & Prockop, D. J. (2011). Anti-inflammatory protein TSG-6 secreted by activated MSCs attenuates zymosan-induced mouse peritonitis by decreasing TLR2/NF-κB signaling in resident macrophages. Blood, 118(2), 330-338. Lesley, J., Hyman, R., & Kincade, P. W. (1993). CD44 and its interaction with extracellularmatrix. Advances in Immunology, 54, 271-335. Sherman, L. S., Rizvi, T. A., Karyala, S., & Ratner, N. (2000). CD44 enhances neuregulin signaling by Schwann cells. The Journal of Cell Biology, 150(5), 1071-1084. Toole, B. P. (2004). Hyaluronan: from extracellular glue to pericellular cue. Nature Reviews Cancer, 4(7), 528-539. Yamada, Y., Itano, N., Narimatsu, H., Kudo, T., Morozumi, K., Hirohashi, S., ... & Kimata, K. (2004). Elevated transcript level of hyaluronan synthase1 gene correlates with poor prognosis of human colon cancer. Clinical & Experimental Metastasis, 21(1), 57-63.

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