

Syntenin-1 Protein, Human (N-His)

Cat. No.:	HY-P71014A
Synonyms:	Syntenin-1; Melanoma differentiation-associated protein 9; Pro-TGF-alpha cytoplasmic domain-interacting protein 18; Scaffold protein Pbp1; Syndecan-binding protein 1; SDCBP; MDA9; SYCL;
Species:	Human
Source:	E. coli
Accession:	NP_001007068.1 (M1-V298)
Gene ID:	6386
Molecular Weight:	Approximately 32 kDa

PROPERTIES

AA Sequence	<pre> MSLYPSLEDL KVDKVIQAQT AFSANPANPA ILSEASAPIP HDGNLYPRLY PELSQYMGLS LNEEEIRANV AVVSGAPLQG QLVARPSSIN YMVAPVTGND VGI RRAEIKQ GIREVILCKD QDGKIGLRLK SIDNGIFVQL VQANSPASLV GLRFGDQVLQ INGENCAGWS SDKAHKVLKQ AFG EKITMTI RDRPFERTIT MHKDSTGHVG FIFKNGKITS IVKDSSAARN GLLTEHNICE INGQNVIGLK DSQIADILST SGT VVTITIM PAFIFEHIK RMAPSIMKSL MDHTIPEV </pre>
Biological Activity	Data is not available.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, pH 7.4, 5% trehalose, 5% mannitol and 0.01% Tween 80.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Syntenin-1 Protein, initially recognized as a mediator linking syndecan-mediated signaling to the cytoskeleton, is characterized by tandemly repeated PDZ domains capable of binding the cytoplasmic, C-terminal domains of various
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transmembrane proteins. Beyond its role in syndecan signaling, syntenin-1 is implicated in influencing cytoskeletal-membrane organization, cell adhesion, protein trafficking, and the activation of transcription factors. While primarily localized to membrane-associated adherens junctions and focal adhesions, this protein is also present in the endoplasmic reticulum and nucleus. Alternative splicing generates multiple transcript variants encoding diverse isoforms. Furthermore, related pseudogenes have been identified on multiple chromosomes. With ubiquitous expression observed in placenta (RPKM 77.0), gall bladder (RPKM 73.7), and 25 other tissues, syntenin-1's wide-ranging presence underscores its involvement in diverse cellular processes across various tissues.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA