

LIMS1 Protein, Mouse (Baculovirus, His)

Cat. No.:	HY-P72064
Synonyms:	Lims1; Pinch1LIM and senescent cell antigen-like-containing domain protein 1; Particularly interesting new Cys-His protein 1; PINCH-1
Species:	Mouse
Source:	Sf9 insect cells
Accession:	Q99JW4 (A2-K325)
Gene ID:	110829
Molecular Weight:	Approximately 39.6 kDa

PROPERTIES

AA Sequence	<pre> ANALASATCE RCKGGFAPAE KIVNSNGELY HEQCFVCAQC FQQFPEGLFY EFEGRKYCEH DFQMLFAPCC HQCGEFIIGR VIKAMNNSWH PECFRCDLQC EVLADIGFVK NAGRHLCRPC HNREKARGLG KYICQKCHAI IDEQPLIFKN DPYHPDHFNC ANCGKELTAD ARELKGELYC LPCHDKMGVP ICGACRRPIE GRVVNAMGKQ WHVEHFVCAK CEKPFLGHRH YERKGLAYCE THYNQLFGDV CFHCNRVIEG DVVSALNKAW CVSCFACSTC NTKLT LKNKF VEFDMKPVCK KCYEKFPLEL KKRLKKLSET LGRK </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm solution of Tris-based buffer, 50% Glycerol.
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	LIMS1, functioning as an adapter protein within a cytoplasmic complex, serves as a crucial link between beta-integrins and the actin cytoskeleton, while simultaneously connecting the complex to cell surface receptor tyrosine kinases and growth factor receptors. Its involvement spans the regulation of essential cellular processes, including cell survival, proliferation, and differentiation. Through the first LIM domain, LIMS1 interacts with integrin-linked protein kinase 1 (ILK), engaging in
-------------------	---

competitive binding with LIMS2. Notably, LIMS1 contributes to the heterotrimeric IPP complex, alongside ILK and either LIMS1 or LIMS2, which plays a pivotal role in cellular signaling. Furthermore, LIMS1 establishes connections with the SH3/SH2 adapter NCK2, facilitating the linkage of the complex to cell surface receptors. Its interaction with TGFB111, mediated by the LIM zinc-binding 5 domain, further expands its network of molecular associations.

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