

Human Latexin Protein

Cat. No. LAT-HE101

Description

Source	Recombinant Human Latexin Protein is expressed from E.coli with His tag at the N-Terminus. It contains Glu2-Glu222.
Accession	AAH05346
Molecular Weight	The protein has a predicted MW of 27.16 kDa. The protein migrates to 30-35 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

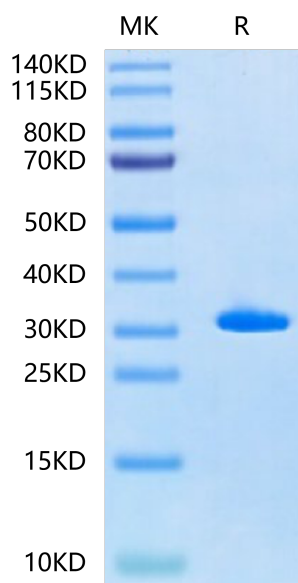
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Latexin, the endogenous protein inhibitor of the A/B subfamily of metalloproteases, is expressed in small nociceptive neurons in sensory ganglia and in a subset of neurons in the telencephalon. Recently, the latexin (Lxn) gene was identified as a potential tumor suppressor in several types of solid tumors and lymphoma, and Lxn expression was found to be absent or downregulated in leukemic cells.

Assay Data

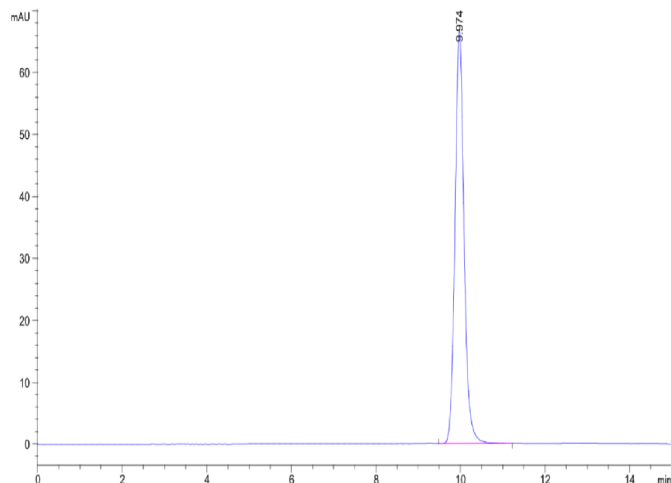
Bis-Tris PAGE



Human Latexin on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

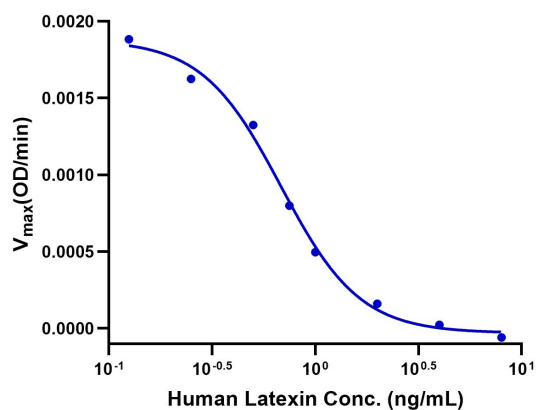
Assay Data



The purity of Human Latexin is greater than 95% as determined by SEC-HPLC.

Bioactivity Data

Human Latexin Enzymic Activity



Measured by its ability to inhibit carboxypeptidase A1 cleavage of the colorimetric peptide substrate Ac-Phe-Thiaphe-OH in the presence of 5,5'Dithio-bis (2-nitrobenzoic acid) (DTNB). The IC₅₀ value is < 1 nM.