

# Human SEZ6 Protein

Cat. No. LTP10342

## Description

<b>Source</b>	Recombinant Human SEZ6 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Leu20-His925.
<b>Accession</b>	Q53EL9-1
<b>Molecular Weight</b>	The protein has a predicted MW of 98.9 kDa. Due to glycosylation, the protein migrates to 145-150 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE

## Formulation and Storage

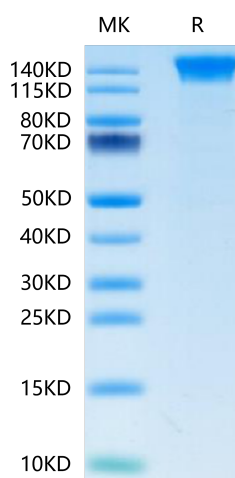
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Seizure-related protein 6 (Sez6) contributes to chronic pain development as sez6 knockout mice show attenuated pain behaviours after peripheral nerve injury, compared with control mice. The type I transmembrane isoform of Sez6 is cleaved by the  $\beta$ -amyloid precursor protein cleavage enzyme 1 (BACE1), resulting in Sez6 extracellular domain shedding from the neuron surface.

## Assay Data

### Tris-Bis PAGE

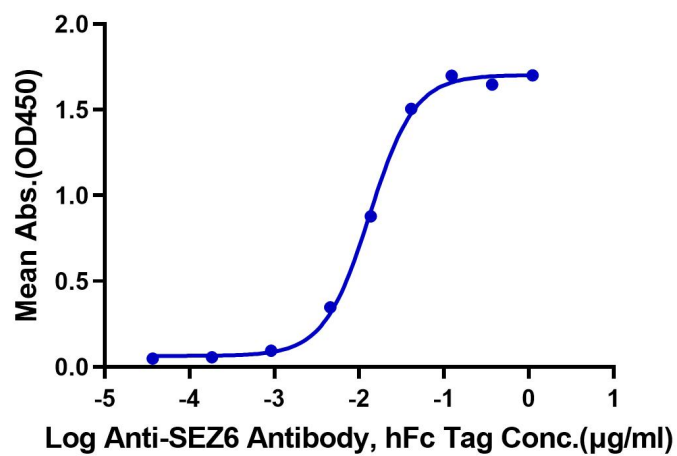


Human SEZ6 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

Assay Data

**Human SEZ6, His Tag ELISA**  
0.05µg Human SEZ6, His Tag Per Well



Immobilized Human SEZ6, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-SEZ6 Antibody, hFc Tag with the EC50 of 13.2ng/ml determined by ELISA.