

Human SEZ6 Sushi4&5 Domain Protein

Cat. No. SEZ-HM12D

Description

Source	Recombinant Human SEZ6 Sushi4&5 Domain Protein is expressed from HEK293 with His tag at the C-terminus. It contains Thr769-Ser899.
Accession	Q53EL9-1
Molecular Weight	The protein has a predicted MW of 15.1 kDa. Due to glycosylation, the protein migrates to 17-23 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

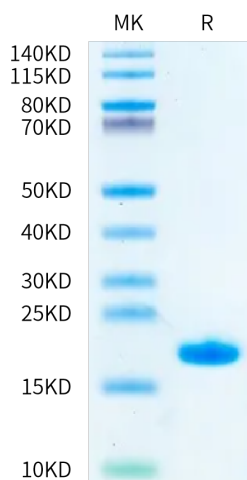
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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

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 β -amyloid precursor protein cleavage enzyme 1 (BACE1), resulting in Sez6 extracellular domain shedding from the neuron surface.

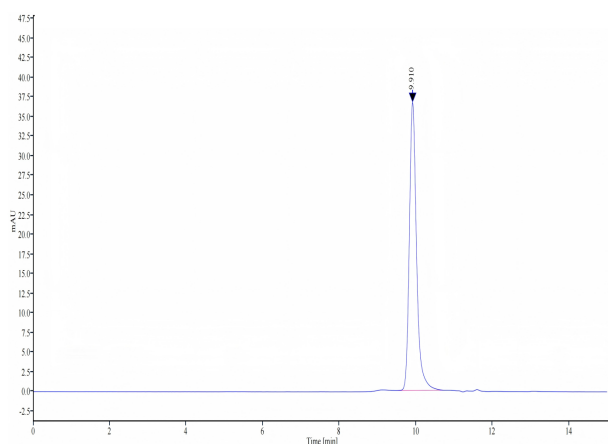
Assay Data

Bis-Tris PAGE



Human SEZ6 Sushi4&5 Domain on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



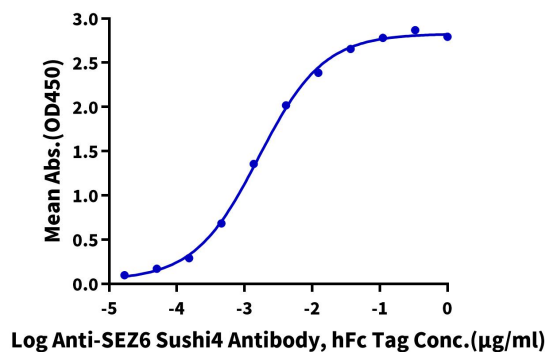
The purity of Human SEZ6 Sushi4&5 Domain is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human SEZ6 Sushi4&5 Domain, His Tag ELISA

0.05µg Human SEZ6 Sushi4&5 Domain, His Tag Per Well



Immobilized Human SEZ6 Sushi4&5 Domain, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-SEZ6 Sushi4 Antibody, hFc Tag with the EC50 of 1.6ng/ml determined by ELISA.