# Rat SEZ6 Protein

**Cat. No.** SEZ-RM106

## Description

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|---|---|
| **Source** | Recombinant Rat SEZ6 Protein is expressed from HEK293 with His tag at the C-terminus. |
| | It contains Leu20-His923. |
| **Accession** | F1MA42 |
| **Molecular Weight** | The protein has a predicted MW of 99.62 kDa. Due to glycosylation, the protein migrates to 170-200 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

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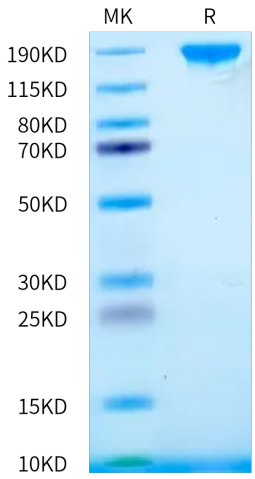
|---|---|
| **Formulation** | Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| **Reconstitution** | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.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

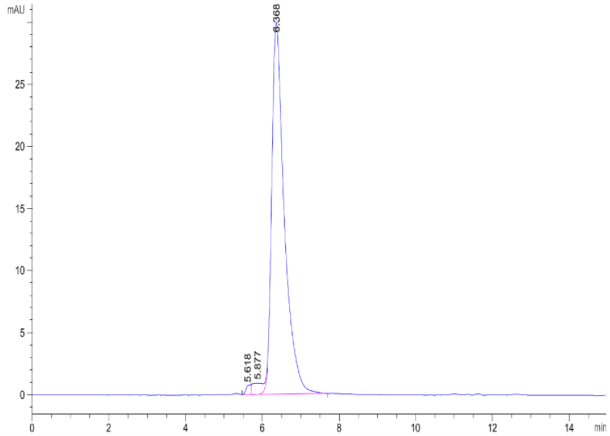
## Assay Data

### Bis-Tris PAGE




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

### SEC-HPLC




The purity of Rat SEZ6 is greater than 95% as determined by SEC-HPLC.

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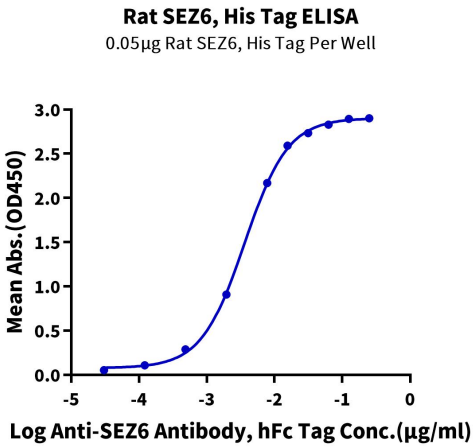
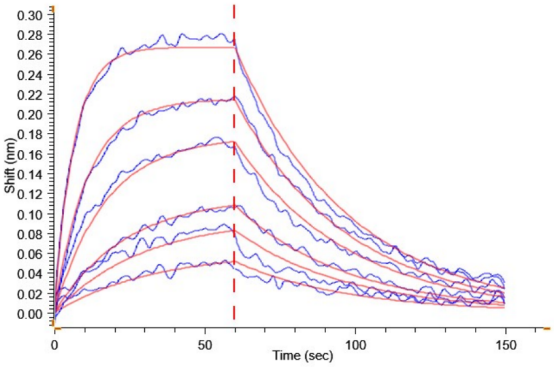
## Assay Data

### ELISA Data




Immobilized Rat 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 3.6ng/ml determined by ELISA (QC Test).

### BLI Data




Loaded Anti-SEZ6 Antibody, hFc Tag on ProA-Biosensor can bind Rat SEZ6, His Tag with an affinity constant of 82.60 nM as determined in BLI assay (Gator® Prime).