

Rev02  
 Update: Aug,08,2025

**DATASHEET**

# SEZ6, His, Mouse

Cat. No.: Z06348

## Product Introduction

<b>Species</b>	Mouse
<b>Protein Construction</b>	<div style="display: flex; align-items: center; justify-content: center;"> <div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;">           SEZ6 (Leu20-His922)_x000D_ Accession # Q7TSK2         </div> <div style="background-color: #76923c; color: white; padding: 5px; text-align: center; margin-left: 10px;">           His         </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 5px; font-size: small;"> <span>N-term</span> <span>C-term</span> </div>
<b>Purity</b>	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
<b>Endotoxin Level</b>	Less than 1EU per µg by the LAL method.
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. Immobilized SEZ6, His, Mouse at 5µg/ml (100µl/well) on the plate can bind AntiSEZ6 Antibody, hFc Tag. Test result was comparable to standard batch.
<b>Expression System</b>	HEK293
<b>Theoretical Molecular Weight</b>	98.8 kDa
<b>Apparent Molecular Weight</b>	Due to glycosylation, the protein migrates to 145-150 kDa based on Bis-Tris PAGE result.
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage &amp; Stability</b>	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

## Background

**Target 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.

**Synonyms :** SEZ-6; SEZ6; BSRPC; BSRP-C

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Confidential and Privileged



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