Data Sheet (Cat.No.TMPK-00997)

TargetMol

SEZ6 Protein, Human, Recombinant (hFc)

General Information

Synonyms:	SEZ-6;BSRP-C;SEZ6;BSRPC
Protein Construction:	Leu20-His925
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q53EL9-1
Molecular Weight:	124.53 kDa (predicted). Due to glycosylation, the protein migrates to 140-200 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human SEZ6, hFc Tag at 2μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated Anti-SEZ6 Antibody, hFc Tag with the EC50 of 11.8ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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.

Reference

Roitman M, et al. Sez6 levels are elevated in cerebrospinal fluid of patients with inflammatory pain-associated conditions. Pain Rep. 2019 Mar 25;4(2):e719. doi: 10.1097/PR9.0000000000000719. PMID: 31041421; PMCID: PMC6455686.

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