

SEZ6 Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	BSRPC;BSRP-C;SEZ6;SEZ-6
Protein Construction:	Leu20-His925
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q53EL9-1
Molecular Weight:	100.7 kDa (predicted). Due to glycosylation, the protein migrates to 170-200 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Biotinylated Human SEZ6, His Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-SEZ6 Antibody, hFc Tag with the EC50 of 10.0ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 µm filtered solution in PBS (pH 7.4).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue 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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