Recombinant QSER1 protein (His tag)

Catalog Number	550883
Species	Human
Expression System	E. coli
Accession	Q2KHR3
Molecular Weight	Predictes a molecular mass of 24.77 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 25 kDa band.

Product Information

Amino Acid Sequence	MSKIKHHHHH HGGSVTRFLN TRAMKETFKS YMELLVSIAL DPDTMQALEK SNDELLLPHM KKIDGMLNDN RKRLLLNLHL DQSFKNALES FPELTIITRD SKAKSGGTAI SKIKMNGKAY NKKTLRTSKT TTKSAQEFAV DPEKIQLYSL YHSLHHYKYH VYLICKDEIS SVQKKNEDLG QEEIVQLCMK NVKWVEDLFE KFGELLNHVQ QKCS
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 1536-1735 aa (Q2KHR3) were fused with N-terminal 6His tag.

Storage & Handling

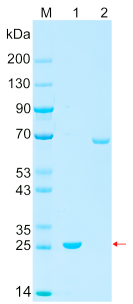
Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Introducing the recombinant Glutamine and serine-rich protein 1 (QSER1) fragment (residues 1536-1735), a stable and soluble unit derived from human QSER1. This fragment is expertly designed for structural and biochemical studies, enabling researchers to explore the protein's essential role in safeguarding transcriptional and developmental programs. Glutamine and serine-rich protein 1 (QSER1) is a human protein critical for protecting and maintaining transcriptional and developmental programs. It specifically inhibits hypermethylation at bivalent promoters and poised enhancers by cooperating with TET1 to prevent DNMT3A/3B binding, thereby regulating de novo DNA methylation. QSER1 localizes to chromosomes, underscoring its direct involvement in epigenetic regulation and genome stability.

Validation

SDS-PAGE



Recombinant QSER1 protein (His tag) SDS-PAGE
M: Marker; Lane 1: QSER1; Lane 2: BSA