Recombinant KHDR3 protein (His tag)

Catalog Number	544175
Synonyms	RNA-binding protein T-Star; Sam68-like mammalian protein 2; SLM-2; Sam68-like phosphotyrosine protein
Species	Human
Expression System	E. coli
Accession	O75525
Molecular Weight	Predictes a molecular mass of 21.98 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	1-176
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 1-176 aa (O75525) were fused with 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	Recombinant Human KHDRBS3 (1-176) is a high-purity protein fragment encompassing the complete KH domain of the RNA-binding protein T-Star (SLM-2). This product is engineered for researchers studying RNA binding, alternative splicing regulation, and signal transduction mechanisms, providing a targeted tool for domain-specific functional analyses. KHDRBS3, also known as Sam68-like mammalian protein 2 (SLM-2), is an RNA-binding protein that plays a critical role in regulating alternative splicing, influencing mRNA splice site selection and exon inclusion. It preferentially binds to the 5'-[AU]UAAA-3' motif and has been shown to regulate splicing of key targets including vascular endothelial growth factor and neurexins, impacting neuronal synapse function and plasticity. The protein's RNA-binding activity is modulated by tyrosine kinases such as PTK6, and it also functions as a negative regulator of cell proliferation. KHDRBS3 localizes to the nucleus, specifically in a compartment adjacent to the nucleolus, and has additional implications in post-transcriptional regulation during microbial infections, including HIV-1 gene expression.