Recombinant TRA2B protein (His tag)

Catalog Number	544778
Synonyms	TRA-2 beta; TRA2-beta; hTRA2-beta; Splicing factor, arginine/serine-rich 10; Transformer-2 protein homolog B
Species	Human
Expression System	E. coli
Accession	P62995
Molecular Weight	Predictes a molecular mass of 11.19 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	115-197
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 115-197 aa (P62995) 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	Introducing the recombinant protein fragment of Transformer-2 protein homolog beta (TRA2B), encompassing amino acids 115-197. This fragment includes the complete RRM domain, making it an excellent tool for investigating the RNA-binding and splicing regulatory functions of TRA2B in a focused manner. Transformer-2 protein homolog beta (TRA2B) is a sequence-specific RNA-binding protein that plays a critical role in the control of pre-mRNA splicing. It can either activate or suppress exon inclusion and functions additively with RBMX to promote exon 7 inclusion in the survival motor neuron SMN2. Additionally, TRA2B activates the splicing of MAPT/Tau exon 10 and modulates splicing patterns by antagonizing other regulators like RBMX. It binds to AG-rich RNA sequences, such as the SE2 domain in SMN exon 7, and is localized to the nucleus, where it exerts its effects on pre-mRNA processing. This positions TRA2B as a key player in post-transcriptional gene regulation.