Recombinant TR5OS protein (His tag)

Catalog Number	551922
Synonyms	TRPC5 opposite strand protein; TRPC5-antisense RNA 1
Species	Human
Expression System	E. coli
Accession	A6NMA1
Molecular Weight	Predictes a molecular mass of 13.98 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 18 kDa band.

Product Information

Sequence Region	1-111
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 1-111 aa (A6NMA1) 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	This product is a high-quality recombinant fragment (amino acids 1-111) of the human Putative Uncharacterized Protein TRPC5OS (TRPC5 opposite strand protein), also known as TRPC5-antisense RNA 1. The fragment has been computationally designed for optimal stability and solubility, making it an ideal reagent for structural biology studies, antibody development, and functional characterization of this intriguing non-coding RNA-associated protein. The full-length TRPC5OS protein is encoded by a gene located on the opposite strand of the TRPC5 gene locus in humans. While the precise molecular function and subcellular localization of the native protein are not yet fully characterized, its genomic context and nomenclature suggest a potential regulatory relationship with the TRPC5 channel gene, possibly involved in transcriptional or post-transcriptional modulation. Research into such antisense-encoded proteins is a growing field in genomics and proteomics, as they may represent a novel layer of gene regulation. This recombinant fragment provides a defined and tractable tool to initiate biochemical and biophysical studies aimed at elucidating the structure and potential function of this protein.