Recombinant AAR2 protein (His tag)

Catalog Number	550263
Synonyms	AAR2 splicing factor homolog
Species	Human
Expression System	E. coli
Accession	Q9Y312
Molecular Weight	Predictes a molecular mass of 45.00 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 46 kDa band.

Product Information

Sequence Region	2-384
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 2-384 aa (Q9Y312) 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 AAR2 Protein (Fragment 2-384) is a high-quality, soluble protein fragment of the AAR2 splicing factor homolog, designed for structural and biochemical studies. This fragment represents a stable and functional unit of the protein, ideal for investigating spliceosome assembly and pre-mRNA splicing mechanisms in research applications. The full-length AAR2 protein, encoded by the AAR2 gene in Homo sapiens, is a critical component of the U5 snRNP complex. It plays an essential role in spliceosome assembly and pre-mRNA splicing, processes vital for gene expression and RNA processing. This recombinant fragment (residues 2-384) was computationally selected to ensure stability and solubility, enabling researchers to explore its functional domains without the complexities of the full-length protein, thereby supporting advancements in understanding RNA splicing and related cellular pathways.