Recombinant LA protein (His tag)

Catalog Number	546685
Synonyms	La autoantigen; La ribonucleoprotein; Sjoegren syndrome type B antigen; SS-B
Species	Human
Expression System	E. coli
Accession	P05455
Molecular Weight	Predictes a molecular mass of 39.34 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 47 kDa band.

Product Information

Sequence Region	1-324
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 1-324 aa (P05455) 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 Lupus La protein fragment (amino acids 1-324) encompassing the complete HTH La-type RNA-binding and RRM domains. This high-purity protein is ideal for studying RNA polymerase III transcript maturation, viral IRES-mediated translation, and autoimmune disease mechanisms. The full-length Lupus La protein (also known as La autoantigen or SS-B antigen) functions as a key regulator of RNA metabolism. It binds to the 3' poly(U) terminus of nascent RNA polymerase III transcripts, protecting them from exonuclease degradation and facilitating proper folding and maturation. Additionally, during Coxsackievirus B3 infection, La protein binds to the viral internal ribosome entry site (IRES) and stimulates IRES-mediated translation. This nuclear-localized protein is clinically significant as an autoantigen in autoimmune conditions such as Sjögren's syndrome and systemic lupus erythematosus.