

## FUS Protein, Human, Recombinant (His & Myc)

### General Information

Synonyms:	75 kDa DNA-pairing protein;Oncogene FUS;POMp75;Translocated in liposarcoma protein;Oncogene TLS;FUS;TLS;RNA-binding protein FUS
Protein Construction:	1-526 aa
Species:	Human
Expression Host:	E. coli
Accession:	P35637
Molecular Weight:	60.9 kDa (predicted)
AA Sequence:	MASNDYTQQATQSYGAYPTQPGQGYSQSSQPYGQQSYSGYSQSTDTSGYGQSSYSSYGQSQNTGYGTQ STPQGYGSTGGYGSSQSSQSSYGGQSSYPGYGQQPAPSSTSGSYGSSSQSSSYGQPQSGSYSQQPSYGGQ QQSYGQQQSYNPPQGYGQQNQYNSSSGGGGGGGGGGNYGQDQSSMSSGGGSGGGYGNQDQSGGGGS GGYGQQDRGGRGRGGSGGGGGGGGGGYNRSSGGYEPGRGGGRGGMGGSDRGGFNKFGGPRDQG SRHDSEQDNSDNTIFVQGLGENVTIESVADYFKQIGIIKTNKKTGQPMINLYTDRETGKLGKGEATVSFDDPPS AKAAIDWFDGKEFSGNPIKVSFATRRADFNRRGGNGRGGRRGGPMGRGGYGGGGSGGGGRGGFPSSGGG GGGGQQRAGDWKCPNPTCENMNFWRNECNQCKAPKPDGPGGGPGGSHMGGNYGDDRRGGRGGYDR GGYRGRGGDRGGFRGGRRGGDRGGFGPGKMDSRGEHRQDRRERPY

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100  $\mu$ g/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

DNA/RNA-binding protein that plays a role in various cellular processes such as transcription regulation, RNA splicing, RNA transport, DNA repair and damage response. Binds to nascent pre-mRNAs and acts as a molecular mediator between RNA polymerase II and U1 small nuclear ribonucleoprotein thereby coupling transcription and splicing. Binds also its own pre-mRNA and autoregulates its expression; this autoregulation mechanism is mediated by non-sense-mediated decay. Plays a role in DNA repair mechanisms by promoting D-loop formation and homologous recombination during DNA double-strand break repair. In neuronal cells, plays crucial roles in dendritic spine formation and stability, RNA transport, mRNA stability and synaptic homeostasis.

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