

Recombinant Human FUS, His-tagged

Cat. No. FUS-30143TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 262-526 of Human TLS/FUS with an N-terminal His tag; Predicted MWt 29 kDa.
Species	Human
Source	E.coli
ProteinLength	262-526 a.a.
Description	This gene encodes a multifunctional protein component of the heterogeneous nuclear ribonucleoprotein (hnRNP) complex. The hnRNP complex is involved in pre-mRNA splicing and the export of fully processed mRNA to the cytoplasm. This protein belongs to the FET family of RNA-binding proteins which have been implicated in cellular processes that include regulation of gene expression, maintenance of genomic integrity and mRNA/microRNA processing. Alternative splicing results in multiple transcript variants. Defects in this gene result in amyotrophic lateral sclerosis type 6.
Conjugation	HIS
Tissue specificity	Ubiquitous.
Form	Lyophilised:Reconstitute with 106 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium

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	phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	FNKFGGPRDQGSRHDSEQDNSDNTIFVQGLGENVTIESV ADYFKQIGIIKTNKKTG QPMINLYTDRETGKLKGEATV SFDDPPSAKAAIDWFDGKEFSGNPIKVSFATRRADF NR GGGNGRGGRRGRGGPMGRGGYGGGSGGGGRGGFPGSGG GGGGQQRAG DWKCPNPTCENMNFSWRNECNQCKAPKPDGPGGGPGGSHMGGNYGDDRRGGR GGYDRGGYRGRGGDRGG FRGGRGGGDRGGFGPGKMDSRGEHRQDRRERPY
Sequence Similarities	Belongs to the RRM TET family.Contains 1 RanBP2-type zinc finger.Contains 1 RRM (RNA recognition motif) domain.

GENE INFORMATION

Gene Name	FUS fused in sarcoma [Homo sapiens]
Official Symbol	FUS
Synonyms	FUS; fused in sarcoma; ALS6, amyotrophic lateral sclerosis 6 , fusion (involved in t(12;16) in malignant liposarcoma) , fusion, derived from t(12;16) malignant liposarcoma; RNA-binding protein FUS; FUS1; heterogeneous nuclear ribonucleoprotein P2; hnRN
Gene ID	2521
mRNA Refseq	NM_001170634
Protein Refseq	NP_001164105
MIM	137070

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Uniprot ID	P35637
Chromosome Location	16p11.2
Pathway	Formation and Maturation of mRNA Transcript, organism-specific biosystem; Gene Expression, organism-specific biosystem; Processing of Capped Intron-Containing Pre-mRNA, organism-specific biosystem; Transcriptional misregulation in cancers, organism-specific biosystem; Transcriptional misregulation in cancers, conserved biosystem;
Function	DNA binding; RNA binding; metal ion binding; nucleotide binding; protein binding;

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