

SMN Tudor Domain (73-173 aa) (GST-tagged), Human recombinant

CATALOG NO: 7676-20 20 µg
7676-50 50 µg

ALTERNATE NAMES: Gemin-1; Component of Gems 1; Survival Motor Neuron Protein.

SOURCE: *E.coli*

PURITY: ≥90% by SDS - PAGE

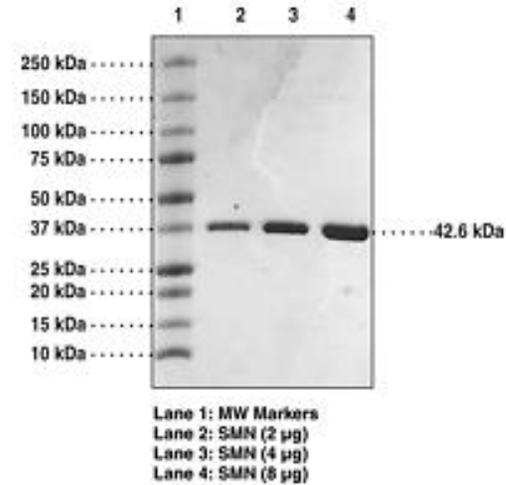
MOL. WEIGHT: 37.9 kDa (73-173 aa, NT GST Tag)

FORMULATION: 50 mM Tris-HCl, 150 mM sodium chloride, pH 8.0 containing 20% glycerol.

STORAGE CONDITIONS: Store at -80°C. Avoid repeated freeze and thaw cycles. Stable for ≥6 months.

DESCRIPTION:

Tudor domains are small protein structural motifs of ~50 amino acids related to the “Royal family” of methyl readers, which also includes chromo, MBT, PWWP, and Agenet-like domains. Tudor domains occur either alone, in tandem, or with other domains and are found in many proteins that are involved in RNA metabolism, germ cell development, transposon silencing, DNA damage response, histone modification and chromatin remodeling. The tudor domains recognize symmetric methylated arginine or methylated lysine residues. The Survival of Motor Neurons (SMN) protein participates in RNA splicing. The Tudor domain of SMN recognizes and binds methylated Sm proteins, which bind small nuclear RNA. SMN is encoded in humans by two separate genes, SMN1 and SMN2, which differ by one base in exon 7. In motor neuron cells, approximately 90% of the SMN2 transcripts are spliced to exclude exon 7. The SMN2 transcripts without exon 7 are less stable than SMN1 transcripts. Consequently, defects in human SMN1 result in the death of motor neuron cells and spinal muscular atrophy, which is the leading genetic cause of infantile death. This protein product contains the tudor domain region of SMN. The sequence of this region is identical in both the SMN1 and the SMN2 genes.



Human Recombinant SMN Tudor Domain

RELATED PRODUCTS:

- JMJD1A Antibody (Cat. No. 3273-100)
- JMJD6 (2-403 aa), Human recombinant (Cat. No. 7679-20, -50)
- JMJD2A Tudor Domains (888-1023 aa), Human recombinant (Cat. No. 7679-20, -50)
- GSK-J1 sodium salt (Cat. No. 2260-1, -5)
- GSK-J4 hydrochloride (Cat. No. 2259-1, -5)
- IOX1 (Cat. No. 2266-5, -25)

FOR RESEARCH USE ONLY! Not to be used in humans.