

Recombinant Human TGS1 Protein (713-853 aa), His-SUMO-tagged

Cat. No. TGS1-1092H **Lot. No.** (See product label)

SPECIFICATION

| | |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview | Recombinant Human TGS1 Protein (713-853 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Epigenetics and Nuclear Signaling. Protein Description: Partial. |
| Species | Human |
| Source | E.coli |
| ProteinLength | 713-853 aa |
| Description | Catalyzes the 2 serial methylation steps for the conversion of the 7-monomethylguanosine (m7G) caps of snRNAs and snoRNAs to a 2,2,7-trimethylguanosine (m(2,2,7)G) cap structure. The enzyme is specific for guanine, and N7 methylation must precede N2 methylation. Hypermethylation of the m7G cap of U snRNAs leads to their concentration in nuclear foci, their colocalization with coilin and the formation of canonical Cajal bodies (CBs). Plays a role in transcriptional regulation. |
| Form | Tris-based buffer, 50% glycerol |
| Molecular Mass | 31.6 kDa |
| AA Sequence | MRVIAIDIDPVKIALARNNAEVYGIADKIEFICGDFLLLASFLKADVFLSPPWGGPDYA TAETFDIRTMMSPDGFEIFRLSKKITNNIVYFLPRNADIDQVASLAGPGGQVEIEQNFL |

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NNKLKTITAYFGDLIRRPASET

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

Gene Name [TGS1 trimethylguanosine synthase 1 \[Homo sapiens \]](#)

Official Symbol [TGS1](#)

Synonyms TGS1; PIMT; SEREX-defined; PIPMT; NCOA6IP; FLJ22995; DKFZp762A163;

Gene ID [96764](#)

mRNA Refseq [NM_024831](#)

Protein Refseq [NP_079107](#)

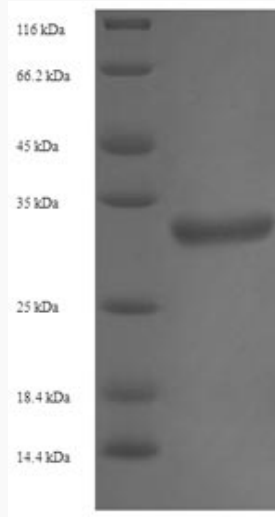
MIM [606461](#)

UniProt ID [Q96RS0](#)

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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