

TGS1 Protein, Human, Recombinant (His & SUMO)

General Information

Synonyms:	PIMT;Trimethylguanosine synthase;NCOA6IP;Hepatocellular carcinoma-associated antigen 137;CLL-associated antigen KW-2;PRIP-interacting protein with methyltransferase motif (PIMT;PIPMT);Cap-specific guanine-N(2) methyltransferase;HCA137;TGS1;Nuclear receptor coactivator 6-interacting protein
Protein Construction:	713-853 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q96RS0
Molecular Weight:	31.6 kDa (predicted)
AA Sequence:	MRVIAIDIDPVKIALARNNAEVYGIADKIEFICGDFLLASFLKADVFLSPPWGGPDYATAETFDIRTMMSPDG FEIFRLSKKITNNIVYFLPRNADIDQVASLAGPGGQVEIEQNFLNNKLTITAYFGDLIRRPASET

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/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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

Catalyzes the 2 serial methylation steps for the conversion of the 7-monomethylguanosine (m(7)G) 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

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concentration in nuclear foci, their colocalization with coilin and the formation of canonical Cajal bodies (CBs). Plays a role in transcriptional regulation.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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