

**METTL1, 1-276aa, Human, His tag, E.coli**

**Cat.NO.: TP02956**

3th Edition

**Synonyms:**Methyltransferase like 1, TRM8, YDL201w

**Description:**METTL1 is known as tRNA (guanine-N(7)-)-methyltransferase which belongs to the methyltransferase superfamily. METTL1 shows high sequence similarity to yeast ORF YDL201w and has been shown to be inactivated by phosphorylation. This protein contains a conserved S-adenosylmethionine-binding motif and is inactivated by phosphorylation. It catalyzes the formation of N(7)-methylguanine at position 46 (m7G46) in tRNA.

**Form:**Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 1mM DTT, 50mM NaCl

**Molecular Weight:**33.6kDa (296aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMAAETRNVAGAEAPPPQKRYRQRAHSNPMADHTLRYPVKPEEMDWSELYPEF  
FAPLTQNSHDDPKDKKRAQAQVEFADIGCGYGGLLVELSPLFPDTLILGLEIRVKVSDYVQDRIRALRAAPAGG  
FQNIACLRSNAMKHLNFFYKQLTKMFFLPDPHFKRTKHKWRIISPTLLAEYAYVLRVGGGLVYTITDVLELHDWM  
CTHFEEHPLFERVPLEDLSEDPVVGHLGTSTEEGKKVLRNGGKNFPAIFRRIQDPVLQAVTSQTSPLPGH

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.