
Product Data Sheet

Product Name: METTL1 Human
 Cat. No.: GP21917
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Methyltransferase-Like 1; TRM8; tRNA(m7G46)-methyltransferase; tRNA (guanine-N(7)-)-methyltransferase ; C12orf1; YDL201w; D1075-like gene product; FLJ95748; EC 2.1.1.33.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAAETRNVAG AEAPPQKRY YRQRAHSNPM ADHTLRYPVK PEEMDWSELY PEFFAPLTQN QSHDDPKDKK EKRAQAQVEF ADIGCGYGGL LEVELSPLFPD TLILGLEIRV KVSDYVQDRI RALRAAPAGG FQNIACLRSN AMKHLPNFFY KGQLTKMFFL FPDPHFKRTK HKWRIISPTL LAEYAYVLRV GGLVYTITDV LELHDWMCTH FEEHPLFERV PLEDLSEDPV VGHLGTSTEE GKKVLRNGGK NFPAIFRRIQ DPVLQAVTSQ TSLPGH		
Formulation	The METTL1 protein solution (0.5mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0)1mM DTT, 50mM NaCl and 10% glycerol.		

Introduction

METTL1 is recognized as tRNA (guanine-N(7)-)-methyltransferase that is a part of the methyltransferase superfamily. METTL1 displays high sequence similarity to yeast ORF YDL201w and can be inactivated by phosphorylation. METTL1 protein has a conserved S-adenosylmethionine-binding motif and catalyzes the formation of N(7)-methylguanine at position 46 (m7G46) in tRNA.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Recombinant Human METTL1 produced in E.Coli is a single, non-glycosylated

Caution: Product has not been fully validated for medical applications. For research use only.

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polypeptide chain containing 296 amino acids (1-276a.a.) and having a molecular mass of 33.6kDa. METTL1 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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