



LD Biopharma, Inc.
7384 Trade Street, Suite B
San Diego, CA 92121
Tel: 858-876-8266
<http://www.ldbiopharma.com>

- PRODUCT DATA SHEET -

Name of Product: Recombinant Human METTL5 Protein
Catalog Number: hTF-2238
Manufacturer: LD Biopharma, Inc.

Introduction

Human methyltransferase-like protein 5 (METTL5) encodes a methyltransferase like protein, which may function as cellular RNA methylation enzyme. Currently, this protein function is unknown. mRNA profiling data indicated that METTL5 only specifically expressed in Fallopian tube epithelium and breast epithelium cells.

Full-length human METTL5 cDNA (208aa) was constructed with codon optimization using gene synthesis technology and expressed with a small T7-His-TEV cleavage site Tag (31aa) fusion at its N-terminal. It was expressed in E.coli as inclusion bodies. The final product was refolded using our unique “temperature shift inclusion body refolding” technology and chromatographically purified.

Gene Symbol: METTL5 (HSPC133)
Accession Number: NP_054887.3
Species: Human
Size: 50 µg / Vial
Composition: 0.5 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, Sucrose and DTT.
Storage: In Liquid. Keep at -80°C for long term storage. Product is stable at 4 °C for at least 30 days.

Key References

Hua-Bing Li, et al. *m6A mRNA methylation controls T cell homeostasis by targeting the IL-7/STAT5/SOCS pathways*. *Nature*, Published online 09 August, doi:10.1038/nature23450 (2017)



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Applications

1. May be used for in vitro METTL5 mediated epithelium cells differentiation study by intracellular delivery of this protein with protein delivery reagent such as ProFectin reagent kit.
2. May be used for mapping protein-protein interaction.
3. May be used as specific substrate protein for kinase, and ubiquitin (Sumo pathway) related enzyme functional screening assays.
4. Potential biomarker protein for monitoring epithelium cell proliferation related diseases.
5. As immunogen for specific antibody production.

Quality Control

Purity: > 90% by SDS-PAGE.

Recombinant Protein Sequence

MASMTGGQQMGRGHHHHHENLYFQGGEFKKVRLKELESRLQQVDGF~~EKPKLLLEQYPTRPHIA~~
ACMLYTIHNTYDDIENKVVADLGC~~GCGVLSIGTAM~~L~~GAGLCVGF~~DIDEDALEIFNRNAEEFELT
NIDMVQCDVCLLSNRMSKSFDTVIMNPPFGTKNNKGTDMAFLKTALEMARTAVYSLHKSSTREH
VQKKA~~AEWKIKIDI~~IAELRYDLPASYK~~FHKKKSVDIEVDLIRFSF~~