

ARG83375 N(6)-methyladenosine ELISA Kit

Package: 96 wells Store at: -20°C, -80°C

Summary

Product Description	ARG83375 N(6)-methyladenosine ELISA Kit is an Enzyme Immunoassay kit for the quantification of N(6)-methyladenosine in Serum, Plasma, Urine Cell lysate and Tissue lysate.
Tested Reactivity	All
Tested Application	FuncSt
Target Name	N(6)-methyladenosine
Conjugation	HRP
Conjugation Note	Read at 450 nm.
Sensitivity	40 ng/mL
Sample Type	Serum, Plasma, Urine Cell lysate and Tissue lysate.
Standard Range	5000 - 78 ng/mL
Sample Volume	50 μL

Application Instructions

Assay Time

~3 hours

Properties

Form	96 well
Storage instruction	Store components at -20°C and -80°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Background	The methylation of adenosine is directed by a large m6A methyltransferase complex containing METTL3, which is the subunit that binds S-adenosyl-L-methionine . In vitro, this methyltransferase complex preferentially methylates RNA oligonucleotides containing GGACU and a similar preference was identified in vivo in mapped m6A sites in Rous sarcoma virus genomic RNA and in bovine prolactin mRNA. More recent studies have characterized other key components of the m6A methyltransferase complex in mammals, including METTL14, Wilms tumor 1 associated protein (WTAP), VIRMA and METTL5. Following a 2010 speculation of m6A in mRNA being dynamic and reversible, the discovery of the first m6A demethylase, fat mass and obesity-associated protein (FTO) in 2011 confirmed this hypothesis and revitalized the interests in the study of m6A. A second m6A demethylase alkB homolog 5 (ALKBH5) was later discovered as well.
Function	The linkages between m6A and numerous cancer types have been indicated in reports that include stomach cancer, prostate cancer, breast cancer, pancreatic cancer, kidney cancer, mesothelioma, sarcoma, and leukaemia.The impacts of m6A on cancer cell proliferation might be much more profound with more data emerging. The depletion of METTL3 is known to cause apoptosis of cancer cells and

