

# Rabbit Indolethylamine N-methyltransferase (INMT) ELISA Kit



Catalog No: #EK11548

Orders: order@signalwayantibody.com

Package Size: #EK11548-1 48T #EK11548-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Rabbit Indolethylamine N-methyltransferase (INMT) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rabbit ( <i>Oryctolagus cuniculus</i> )
Other Names	MGC125940; MGC125941; amine N-methyltransferase aromatic alkylamine N-methyltransferase arylamine N-methyltransferase nicotine N-methyltransferase thioester S-methyltransferase-like
Accession No.	O97972
Uniprot	O97972
GeneID	100008695;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.  The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

## Application Details

Detect Range:12.35-1000 pg/mL

Sensitivity:4.88 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

## Product Description

**Detection Method:**SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate INMT in samples. An antibody specific for INMT has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyINMT present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for INMT is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of INMT bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Indolethylamine N-methyltransferase (INMT) catalyzes the N-methylation of tryptamine and structurally related compounds.The predicted 263-amino acid human INMT protein contains the signature sequences of methyltransferases, referred to as RI, RII, and RIII. Human INMT shares 88% amino acid sequence identity with rabbit INMT, 58% identity with mouse thioether methyltransferase, 53% identity with both human and mouse nicotinamide methyltransferase (NNMT), and 38% identity with human phenylethanolamine N-methyltransferase (PNMT). The INMT gene is 5,471 bp in length and contains 3 exons. Northern blot analysis detected an approximately 2.7-kb INMT transcript in most of the 35 human tissues tested, with highest expression in adult thyroid, adult adrenal gland, adult lung, and fetal lung.

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Note: This product is for in vitro research use only