

INMT (Q-12): sc-243085

BACKGROUND

Methylation is an important reaction in the metabolism of many drugs, other xenobiotics and endogenous molecules. A methyltransferase is a type of transferase enzyme that transfers a methyl group from a donor to an acceptor. INMT (indolethylamine N-methyltransferase), also known as Temt or aromatic alkylamine N-methyltransferase, is a 264 amino acid protein belonging to the NNMT/PNMT/TEMT family. Localized to the cytoplasm, INMT catalyzes the N-methylation of tryptamine and structurally related compounds. Existing as a monomer, INMT may have a role in the *in vivo* synthesis of psychoactive compounds or neurotoxins. The gene encoding INMT maps to human chromosome 7p14.3 and mouse chromosome 6 B3.

REFERENCES

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3. Irace, G., Colonna, G., Camardella, M., Della Pietra, G. and Porta, R. 1982. Purification and molecular properties of rabbit lung indolamine N-methyltransferase. *Biochemistry* 21: 1464-1470.
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CHROMOSOMAL LOCATION

Genetic locus: *Inmt* (mouse) mapping to 6 B3.

SOURCE

INMT (Q-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of INMT of mouse origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-243085 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

INMT (Q-12) is recommended for detection of INMT of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for INMT siRNA (m): sc-146238, INMT shRNA Plasmid (m): sc-146238-SH and INMT shRNA (m) Lentiviral Particles: sc-146238-V.

Molecular Weight of INMT: 29 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.