

COMT (h3): 293T Lysate: sc-128346

BACKGROUND

Catechol-O-methyltransferase (COMT) plays a crucial role in the regulation of central dopaminergic systems by catalyzing the inactivation of catecholamines. It is widely distributed in most tissues in soluble and membrane-bound forms. COMT-mediated methylation metabolism of catecholamine neurotransmitters is a first-line detoxification pathway. A Val158Met polymorphism of the COMT gene affects activity of the enzyme and influences performance and efficiency of the prefrontal cortex of the brain. Sequential conversion of Estradiol to methoxyestradiol by COMT, contributes to the antimitogenic effects of Estradiol on vascular smooth muscle cell growth via estrogen receptor-independent mechanisms.

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CHROMOSOMAL LOCATION

Genetic locus: COMT (human) mapping to 22q11.21.

PRODUCT

COMT (h3): 293T Lysate represents a lysate of human COMT transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

COMT (h3): 293T Lysate is suitable as a Western Blotting positive control for human reactive COMT antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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 for detailed protocols and support products.