

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### COMT Peptide

Cat No.: BS5671P

#### Background

Catechol-O-methyltransferase (COMT) plays a crucial role in the regulation of central dopaminergic systems by catalyzing the inactivation of catechol-amines. 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 antimutagenic effects of estradiol on vascular smooth muscle cell growth via estrogen receptor-independent mechanisms. COMTD1 (catechol O-methyltransferase domain-containing protein 1) is a 262 amino acid single-pass type II membrane protein that belongs to the methyltransferase superfamily.

#### Swiss-Prot

P21964

#### Applications

#### Blocking

#### Specificity

This peptide can be used with studies using BS5671 COMT pAb.

#### Purification & Purity

Synthetic peptide COMT. (Note: the amino acid sequence is proprietary). The purity is > 98%.

#### Product

1 mg/ml in DI water.

#### Storage & Stability

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

#### Research Use

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