Dopamine (1.B.639): sc-70988



The Power to Question

BACKGROUND

Dopamine (C6H3(OH)2-CH2-CH2-NH2) is a catecholamine neurotransmitter expressed manuly in the brain that activates dopamine receptors. Dopamine is also a neurohormone released by the hypothalamus. Its chemical name is 4-(2-aminoethyl)benzene-1,2-diol and its main function is to inhibit the release of prolactin from the anterior lobe of the pituitary. Dopamine can be used as a sympathomimetic drug because it produces effects such as increased heart rate and blood pressure. Changes in Dopamine concentration within the brain may explain symptoms observed in individuals with Schizophrenia, and a reduction in its concentration is associated with Parkinson's disease.

REFERENCES

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- Kalivas, P.W. and Stewart, J. 1992. Dopamine transmission in the initiation and expression of drug- and stress-sensitization of motor activity. Brain Res. Brain Res. Rev. 16: 223-244.
- 5. Seeman, P. and Van Tol, H.H. 1994. Dopamine receptor pharmacology. Trends Pharmacol. Sci. 15: 264-270.
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SOURCE

Dopamine (1.B.639) is a mouse monoclonal antibody raised against dopamine conjugated wtih BSA.

PRODUCT

Each vial contains 100 $\mu g \; lg G_1$ in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Dopamine (1.B.639) is recommended for detection of catecholamine of mouse, rat and human origin by immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500).

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 for detailed protocols and support products.

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