

Product Specification Sheet

Malondialdehyde (MDA; 1,1,3,3-Tetramethoxypropane)

Cat # MDA51-10

SIZE: 10 ml

FORM: Soln.

MDA (Malondialdehyde) is a highly reactive three carbon dialdehyde produced as a byproduct of polyunsaturated fatty acid peroxidation and arachidonic acid metabolism. MDA readily combines with several functional groups on molecules including proteins, lipoproteins, and DNA. MDA-modified proteins may show altered physico-chemical behavior and antigenicity. Antibodies to MDA will help to visualize the MDA-adducts.

Source

Product Name: 1,1,3,3-Tetramethoxypropane

Synonyms: Malonaldehyde bis(dimethyl acetal)

MDL number: MFCD00008488

Molecular Formula: C7H16O4

Molecular Weight: 164.2

CAS Number: 102-52-3

MDL Number: MFCD00008488

Assay: 99%

EC Number: 2030372

BRN: 1700020

Beilstein Index: Beil.1,IV,3635

R&S: : R: 10, S: 16-26-36/37/39

Purity: 99%; Colorless liquid

Extended specifications

n₂₀/D 1.407 (lit.)

bp 183 °C/760 mm Hg (lit.)

Fp 130 °F

Density 0.997 g/mL (lit.)

Storage

Store at room temperature.

Stability: 6-12 months.

Shipping: room temp.

General References:

1. Yahya, ND et al (1996) J. Autoimmunity 9, 3-9; 2. Lung, CC et al (1992) Life Sci. 52, 329-337; 3. Lung et al (1990) J. Immunological Methods 128, 127-132; 4. Shah, G (1994) Life Sci. 55, 1343-1349

Citations of ADI's MDA antibodies (see complete list at the web site).

Penkowaa, Milena 2001 Altered inflammatory response and increased neurodegeneration in metallothionein I+II deficient mice during experimental autoimmune encephalomyelitis **J Neuroimmunol 119, 248-260, IHC**

Carrasco, Javier 2000 Enhanced seizures and hippocampal neurodegeneration following kainic acid-induced seizures in metallothionein-I + II-deficient mice, **European Journal of Neuroscience 12, 2311, IHC**

Penkowaa, M et al 2001 Interleukin-6 deficiency reduces the brain inflammatory response and increases oxidative stress and neurodegeneration after kainic acid-induced seizures **Neuroscience, 102, 805-818, IHC**

All products are for in vitro research use only.

Anti-MDA, Anti-HNE antibodies

Western Blot Recycling Kit (Re-use your blots in 15 mins.); Enhanced NuGlo Chemiluminescent Substrates

MDA51-10

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