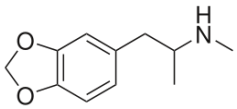
ALPHA DIAGNOSTIC INTERNATIONAL

Life Technologies™ Your Molecular & Cell Technology Partner

Product Specification Sheet

3,4-Methylenedioxymethamphetamine (MDMA) Antibodies and Conjugates

☐ Cat. # MDMA11-M	Monoclonal anti-3,4-Methylenedioxymethamphetamine (MDMA) IgG, clone 1	**SIZE**: 1 mg
☐ Cat. # MDMA12-M	Monoclonal anti-3,4-Methylenedioxymethamphetamine (MDMA) IgG, clone 2	**SIZE**: 1 mg
☐ Cat. # MDMA15-N-1	MDMA-Bovine thyroglobulin conjugate for ELISA/Western	**SIZE**: 0.5 mg
☐ Cat. # MDMA16-N-1	MDMA-BSA conjugate for ELISA/Western	**SIZE**: 0.5 mg



MDMA (3,4-methylenedioxy-N-methylamphetamine) is an empathogenic drug of the phenethylamine and amphetamine classes of drugs. MDMA has become widely known as "ecstasy" (shortened to "E", "X", or "XTC"), usually referring to its street pill form, although this term may also include the presence of possible adulterants. The terms "mandy" or "molly" colloquially refer to MDMA in powder or crystalline form, usually implying a higher level of purity. MDMA can induce euphoria, a sense of intimacy with others, diminished anxiety, and mild psychedelia. Many studies, particularly in the fields of psychology and cognitive therapy, have suggested MDMA has therapeutic benefits and facilitates therapy sessions in certain individuals, a practice for which it had been formally used in the past. Clinical trials are now testing the therapeutic potential of MDMA for post-traumatic stress disorder, anxiety associated with terminal cancer and addiction. For 2008, the UN estimated between 10 and 25 million people globally used MDMA at least once in the past year. This was broadly similar to the number of cocaine, amphetamine, and opioid users, but far fewer than the global number of cannabis users.

Source of Antigen and Antibodies

Antigen	MDMA- protein conjugate
Ab Host/type	Balb/c **mouse**. clone 1 (designated MDMA11-M, isotype IgG2bk) and clone 2 (MDMA12-M; IgG1 selected for reactivity with MDMA, was expanded into mice as **ascites**. Antibody has been purified by Protein A/G column chromatography.
2-Ab	Goat Anti-mouse IgG-HRP conjugate Cat # 40320 (AP, biotin, FITC conjugates also available))
-ve control IgG	Cat # 20008-1, Mouse (non-immune) Serum IgG, purified, suitable for ELISA, Western, IHC as –ve control

Suggested Dilutions: 1:500-1:5K for ELISA;

Further optimization may be needed under actual experimental conditions.

Specificity

MDMA11-M and MDMA12-M do not react with methamphetamine or Amphetamines.

MDMA-BSA and MDMA-Thyroglobulin protein conjugates are available for various studies.

Affinity pure IgG

☐ 100 ug/100ul ☐ solution ☐ lyophilized powder

Supplied in **Buffer**: PBS+0.05% azide

Reconstitute powder in PBS at 1 mg/ml

Storage

Short-term: unopened, undiluted liquid vials at -20OC and powder at 4oC or -20oC..

Long-term: at –20C or below in suitable aliquots after reconstitution. Do not freeze and thaw and store working, diluted solutions.

Stability: 6-12 months at –20oC or below.

Shipping: 4oC for solutions and room temp for powder

Shipping: 4oC for solutions and room temp for powder.

#MDMA15-N-1; MDMA-Thyroglobulin Conjugate

MDMA was coupled to purified bovine thryroglobulin using proprietary technique. The conjugate is supplied in PBS, pH 7.4 and 0.02% azide in solution or lyophilized in the same buffer. Store at -20oC. Stable for 6-12 month. Reconstitute powder in PBS or other buffers as desired.

#MDMA16-N-1; BSA- Conjugate

MDMA was coupled to purified bovine serum albumin (BSA) using proprietary technique. The conjugate is supplied in PBS, pH 7.4 and 0.02% azide in solution or lyophilized in the same buffer. Store at -20oC. Stable for 6-12 month. Reconstitute powder in PBS or other buffers as desired.

Refs: Sessa (2007) *J. Psychopharmacol. (Oxford)* **21** (8): 787–791; Oehen P (2012) *J. Psychopharmacology* **27** (1): 40–52; Greer AR (2003) Pharmacol. Rev. 55 (3): 463–508.

**All product are for In vitro research use only.*

Related material available from ADI

MDMA ELISA kits and rapid tests

MDMA11-12-M 131003A

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