

Product Specification Sheet

Human Benzoylecgonine (BNZE) antibodies

<input type="checkbox"/> Cat. # BNZE11-M	Mouse Monoclonal Anti-Human BNZE, clone 1	SIZE: 1 mg
<input type="checkbox"/> Cat. # BNZE12-M	Mouse Monoclonal Anti-Human BNZE, clone 2	SIZE: 1 mg
<input type="checkbox"/> Cat. # BNZE13-A	Anti-Benzodiazepine IgG aff pure	SIZE: 1 mg
<input type="checkbox"/> Cat. # BNZE15-N	BNZE BSA conjugate for Western/ELISA	SIZE: 0.5 mg

Benzoylecgonine is a topical analgesic and the main metabolite of cocaine.

Benzoylecgonine is the compound tested for in most substantive cocaine urinalyses. It is the corresponding carboxylic acid resulting of the hydrolysis of the methyl ester of cocaine. It is formed in the liver by the metabolism of cocaine, catalysed by carboxylesterases, and subsequently excreted in the urine. It can be found in the urine for considerably longer than the cocaine itself which is generally cleared out within 5 days. Small amounts may be traced back to certain OTC (over the counter) medications, after having been metabolized in the liver.[citation needed]

Source of Antigen and Antibodies

Antigen	BenzoylEcgonine-KLH
Ab Host/type	Mouse, monoclonal IgG (#BNZE11-M) supplied purified IgG
2-ab	Goat Anti-mouse IgG-HRP conjugate Cat # 40120 (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

BNZE15-N

Linking position	Para
Linker Name:	3 carbons spacer
Molar Reaction Ratio:	30:1

Purified IgG. Purification: Protein A affinity chromatography (>98%). Store at -20oC in suitable size aliquots. SDS may crystallize in cold conditions. It should re dissolved by warming before taking it from the stock. It should be heated once prior to loading on gels. This preparation is not biologically active. It is not suitable for ELISA or other applications where

native protein is required. Do not freeze, thaw, or heat repeatedly.

All human derived material has been tested negative for HIV, HCV, and HbSAG. Nevertheless, all precautions should be taken and samples be treated as potentially hazardous.

Form & Storage of Antibodies/Peptide Control

Affinity pure IgG

100 ug/100ul solution lyophilized powder

Supplied in **Buffer:** PBS+0.1% NaN3

Reconstitute powder in PBS at 1mg/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: 4°C for solutions and room temp for powder

Recommended Usage

Western Blotting (1:500-:1:2K) using ECL technique.

ELISA: Control peptide/protein can be used to coat ELISA plates at 1 ug/ml and detected with antibodies (1:10-50K for neat serum and 0.5-1 ug/ml for affinity pure).

Histochemistry & Immunofluorescence: Not tested. We recommend the use of affinity purified antibody at 2-20 ug/ml in paraformaldehyde fixed sections of tissues.

Specificity & Cross-reactivity

The antibodies are specific for human BNZE with no reactivity to other serum proteins. Antibody cross-reactivity in various species has not been studied. The BNZE11-C control protein can be used for western or #BNZE16-N for ELISA.

References:

Hamilton HE J Forensic Sci. 1977 Oct;22(4):697-707.

*This product is for In vitro research use only.

BNZE11-12-M

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