

For Research Use Only. Not for use in diagnostic procedures.

#### PRODUCT DESCRIPTION

Biotinylated MHC Class I Monomer is composed of a particular peptide in combination with a particular MHC class I allele that has been biotinylated at the C-terminus of the heavy chain extracellular domain.

#### BACKGROUND

T lymphocytes play a central role in immune system function. The Biotinylated Class I MHC/peptide complex can be used in research studies involving CD8<sup>+</sup> antigen-specific T cells.

#### REAGENTS

Biotinylated MHC Class I Monomer is dissolved in an aqueous buffer containing 0.5 mM EDTA, 0.01M Tris, 0.15M NaCl, and <0.1% NaN<sub>3</sub>.

#### REAGENT PREPARATION

No preparation is necessary.

#### STORAGE CONDITIONS

Store at -70 to -90°C. Avoid repeated freezing and thawing.

#### EVIDENCE OF DETERIORATION

Any change in the physical appearance of this reagent may indicate deterioration and the reagent should not be used. The normal appearance is a clear, colorless liquid.

#### USAGE

This reagent is for conditions determined by the end user.

#### STATEMENT OF WARNINGS

1. This reagent contains <0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.
2. Universal precautions should be observed whenever handling any potential infectious specimens or samples.
3. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
4. Minimize exposure of reagent to light during storage or incubation when the monomer is prepared with a light sensitive peptide.
5. Avoid microbial contamination of reagent or erroneous results may occur.

#### SYMBOL DEFINITIONS

**REF** = Code Number

**LOT** = Lot Number

**RUO** = Research Use Only

 = Store Away From Direct Light

**e** = Amount

#### LIMITATIONS

Researcher is responsible for determining optimal assay conditions when using this reagent.

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For more information or if damaged product is received, contact MBL International Customer Service at 1-800-200-5459 (U.S. & Canada) or by email at [tetramer@mblintl.com](mailto:tetramer@mblintl.com). Other countries should contact their local distributor found on our website, [mblintl.com](http://mblintl.com).

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