

Recommended use

U-Load dCODE Dextramer® is a DNA barcode labeled Dextramer® backbone optimized for attachment of biotinylated MHC-peptide monomers. U-Load dCODE Dextramer® is used in combination with easYmers® or U-Load® MHC-II to generate U-Load dCODE Dextramer® MHC for detection of antigen-specific T cells.

For research use only. Not for use in diagnostic or therapeutic procedures.

Reagents provided

- U-Load dCODE Dextramer®
- U-Load dCODE Dextramer® Dilution Buffer: 4xPBS, 2% BSA, 30 mM NaN₃, pH 7 (Cat. No.# ULBUF)

U-Load dCODE Dextramer® consists of a fluorescent (PE) dextran polymer backbone carrying an average of 18 acceptor sites for biotinylated ligands and a unique DNA Barcode oligo for sorting of U-Load dCODE Dextramer®-positive cells before loading the sample into the BD Rhapsody™ system or 10x Chromium Gene Expression platform. Each U-Load dCODE Dextramer® is uniquely identified by its fluorophore and DNA Barcode, e.g., PE / GCGAGTAAGGGTCAAGTAAAGCGTAATAGTGGCAGG.

For U-Load dCODE Dextramer® (RiO), the unique DNA Barcode oligo comprises:

- BD Rhapsody™ compatible PCR handle sequences for PCR amplification
- Unique Molecule Identifier (UMI) sequence
- DNA Barcode sequence that specifies the MHC-peptide specificity



For U-Load dCODE Dextramer® (10x), the unique DNA Barcode comprises:

- Primer sequence compatible with Illumina® Sequencers (Nextera pR2)
- Unique molecule identifier (UMI)
- ID sequence (barcode) that specify the MHC-peptide specificity
- Capture sequence for 10x Chromium Single Cell Immune Profiling solution



For U-Load dCODE Dextramer® (HiT), the unique DNA Barcode oligo comprises:

- Forward and reverse primer handle sequences for amplification of DNA Barcode
- Unique Molecule Identifier (UMI) sequence
- DNA Barcode sequence that specifies the MHC-peptide specificity



U-Load dCODE Dextramer® is provided at a concentration of 2.7 x 10⁻⁷ M in PBS buffer, containing 1% bovine serum albumin (BSA) and 15 mM NaN₃, pH 7.2.

Sizes	<p>U-Load dCODE Dextramer® is provided as single reagents or in panels:</p> <p>Single reagents of 20 tests (24 µL), 50 tests (60 µL), or 150 tests (180 µL) each.</p> <p>Panels of 16, 32, 48, 64, 80, and 96 U-Load dCODE Dextramer® reagents for 20 tests (24 µL), or 50 tests (60 µL) each.</p> <p>2 vials of U-Load dCODE Dextramer® Dilution Buffer (3 ml) are provided together with single reagents.</p> <p>4 vials of U-Load dCODE Dextramer® Dilution Buffer (6 ml) are provided together with panels of reagents.</p>
Storage	<p>Reagents should be stored at 2-8°C in the dark – the plastic vial only partially protects the reagents against light</p>
Precautions	<p>Contains sodium azide (NaN₃), a chemical highly toxic in pure form. At product concentrations, though not classified as hazardous, sodium azide may react with lead and copper, plumbing to form highly explosive build-ups of metal azides. Upon disposal, flush with large volumes of water to prevent metal azide build-up in plumbing.</p> <p>As with any product derived from biological sources, proper handling procedures should be used.</p> <p>For professional users.</p>
Recommended protocols	<p>See "Protocol for Preparation of MHC I-peptide monomer and fluorescent U-Load dCODE Dextramer® MHC I".</p> <p>For U-Load dCODE Dextramer® (RiO) see "dCODE Dextramer® (RiO) Package Insert".</p> <p>For U-Load dCODE Dextramer® (10x) see "dCODE Dextramer® (10x compatible) Staining Protocol".</p> <p>For U-Load dCODE Dextramer® (HiT) see "dCODE Dextramer® (HiT) Package Insert".</p> <p>(www.immudex.com/resources/protocols/)</p>
Symbols	<p>See www.immudex.com/symbols</p>
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Manufacturer	<p>Immudex, Bredevej 2A, 2830 Virum, Denmark</p>