dCODE Dextramer® (10x)
Peptide Pool, Neg. Control

Product

[MHC allele] / Peptide pool, Neg. Control / [fluorochrome] / [Barcode] [size]
Cat. No. WxxxxxxDXG

dCODE Dextramer® (10x) Peptide pool Neg. Control reagents consist of a dextran polymer backbone carrying multiple peptide-MHC monomers, and R-phycoerythrin (PE) for sorting of dCODE® (10x) positive cells.

The peptide-MHC monomers are produced with peptide pools of enormous diversity allowing each MHC monomer to display a different peptide. Each Peptide pool Negative Control Dextramer® molecule is composed of a unique set of peptide-MHC monomers.

dCODE Dextramer® has a DNA oligonucleotide attached with a DNA barcode sequence that defines the negative control reagent.

The Unique DNA Barcode comprises:

- Primer sequence compatible with Illumina® Sequencers (Nextera pR2)
- Unique molecule identifier (UMI)
- ID sequence (barcode) that specifies the monomeric MHC-antigen complex of the Dextramer®
- Capture sequence for 10x Chromium single cell immune profiling solution.

5’ -Nextera pR2 - - UMI - - ID - - UMI - - Capture seq - 3’
CGGAGATGTGTATAAGAGACAGNNNNNNNNNNXXXXXXXXXXXXXXXNNNNNNNNNCCCATATAAGAAA 3’

Recommended use

dCODE Dextramer® (10x) Peptide Pool Neg. Control reagents are recommended for use as negative controls in dCODE Dextramer® single cell experiments using the 10x Chromium Single Cell Single-Cell analysis System.

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

Recommended protocols

See “dCODE Dextramer® (10x Compatible) Staining Protocol (Package Insert)”, (immudex.com/resources/protocols).

Reagents provided

dCODE® (10x) reagents are provided at a concentration of 160 nM in PBS, containing 1% bovine serum albumin (BSA) and 15 mM NaN_3, pH 7.2.

Sizes

Single reagents of 25 tests (50 µL), 50 tests (100 µL), or 150 tests (300 µL) each.

Concentration	160 nM
Vials	The product is provided in a 2.0 mL plastic vial with screw caps.
Storage	dCODE® (10x) reagents should be stored at 2-8°C in the dark – the plastic vial only partially protects the reagents against light.
Expected Shelf-life	See immudex.com/FAQs.
Quality Control	Production of dCODE Dextramer® includes multiple in-process quality control checks (see immudex.com/resources/quality).
Precautions	Contains sodium azide (NaN_3), 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. As with any product derived from biological sources, proper handling procedures should be used. For professional users.
Patents	The dCODE® technology is disclosed in granted and pending patents within the WO 2015/185067 and WO 2015/188839 patent families including US11402373, US11585806, US11668705, EP3155426, EP3628684, HK1236546 B, AU2015271324, AU2019264685, AU2021204496, CA2951325, SG11201610177U, JP6956632 and JP7271465.
SDS	Immudex's products and components are classified as non-hazardous and therefore a Safety Data Sheet (SDS) is not required – please read our Non-hazard Classification Statement at immudex.com/resources/safety-documentation.
Symbols	See immudex.com/symbols.
Technical support	E-mail: customer@immudex.com Telephone: +45 3110 9292 (Denmark), +1 (215) 931-9627 (US).
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