

## Data Sheet

# Recombinant human MHC I-Strep HLA-A\*0201 Proteinase 3 peptide

Cat. No. : 6-7023-001, 6-7023-005, 6-7023-015, 6-7023-050,  
6-7023-100

Lot No.: 7023-

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<b>Description</b>	<p><b>Recombinant human MHC I-Strep HLA-A*0201 for Streptamer technology. Refolded with Proteinase 3 peptide (VLQELNVTV)</b></p> <ul style="list-style-type: none"> <li>• <b>Streptamer® Fluorescent T-cell Labeling and Isolation via FACS using Strep-Tactin-PE or -APC:</b> The MHC molecules with <i>Strep</i>-tag can be multimerized by <i>Strep</i>-Tactin-PE (R-Phycoerythrin) or -APC (Allophycocyanin) conjugate via the reversible interaction between <i>Strep</i>-tag and <i>Strep</i>-Tactin. The resulting multimer can be used to stain T-cells which are specific for the respective peptide-loaded MHC molecule.</li> <li>• <b>Streptamer® Magnetic T-cell Labeling and Isolation via MACS:</b> The MHC molecules with <i>Strep</i>-tag have to be combined with Streptamer Magnetic Beads and can be used for the isolation of T-cells on a Miltenyi Biotec MACS® column.</li> </ul> <p>After the cells have been sorted by <b>FACS</b> or isolated using <b>Magnetic Beads</b> the dye complex or magnetic microspheres can be mildly and rapidly dissociated from the T-cells by using biotin leading to improved viability of the cells after isolation.</p>
<b>Form</b>	<p>Dissolved in PBS (Phosphate buffered saline): 8.06 mM Na<sub>2</sub>HPO<sub>4</sub> × 2H<sub>2</sub>O; 1.47 mM KH<sub>2</sub>PO<sub>4</sub>; 137 mM NaCl; pH 8.0 <b>Solution is sterile and does not contain any preservative.</b> <b>Please handle under sterile conditions.</b></p>
<b>Concentration</b>	0.25 mg/ml (4 µl are equivalent to 1 µg MHC)
<b>Amount</b>	<p>Cat. No. 6-7023-001: 40 µl = 10 staining test or 5 magnetic preps Cat. No. 6-7023-005: 200 µl = 50 staining test or 25 magnetic preps Cat. No. 6-7023-015: 600 µl = 150 staining test or 75 magnetic preps Cat. No. 6-7023-050: 2 ml = 500 staining test or 250 magnetic preps Cat. No. 6-7023-100: 4 ml = 1000 staining test or 500 magnetic preps 1 staining test = approx. 5x10<sup>6</sup> cells; 1 magnetic prep = approx. 2x10<sup>7</sup> cells</p>
<b>Storage</b>	<p>Long-term storage: -80 °C (avoid repeated freezing and thawing) Short-term storage: make aliquots and store at 4 °C</p>
<b>Shipment</b>	Dry Ice
<b>Stability</b>	12 months after shipping if continuously stored at -80 °C

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