

Data Sheet

Recombinant human MHC I-*Strep* HLA-B*0702 Muc-1 peptide (VPGWGIALI)

Cat. No. : 6-7022-001, 6-7022-005, 6-7022-015, 6-7022-050,
6-7022-100

Lot No.: 7022-

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Description	<p>Recombinant human MHC I-<i>Strep</i> HLA-B*0702 for Streptamer technology. Refolded with Muc-1 peptide (VPGWGIALI)</p> <ul style="list-style-type: none"> • Streptamer® Fluorescent T-cell Labeling and Isolation via FACS using <i>Strep</i>-Tactin-PE or -APC: 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. • Streptamer® Magnetic T-cell Labeling and Isolation via MACS: 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. <p>After the cells have been sorted by FACS or isolated using Magnetic Beads 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>
Form	<p>Dissolved in PBS (Phosphate buffered saline): 8.06 mM Na₂HPO₄ × 2H₂O; 1.47 mM KH₂PO₄; 137 mM NaCl; pH 8.0 Solution is sterile and does not contain any preservative. Please handle under sterile conditions.</p>
Concentration	0.25 mg/ml (4 µl are equivalent to 1 µg MHC)
Amount	<p>Cat. No. 6-7022-001: 40 µl = 10 staining test or 5 magnetic preps Cat. No. 6-7022-005: 200 µl = 50 staining test or 25 magnetic preps Cat. No. 6-7022-015: 600 µl = 150 staining test or 75 magnetic preps Cat. No. 6-7022-050: 2 ml = 500 staining test or 250 magnetic preps Cat. No. 6-7022-100: 4 ml = 1000 staining test or 500 magnetic preps 1 staining test = approx. 5x10⁶ cells; 1 magnetic prep = approx. 2x10⁷ cells</p>
Storage	<p>Long-term storage: -80 °C (avoid repeated freezing and thawing) Short-term storage: make aliquots and store at 4 °C</p>
Shipment	Dry Ice
Stability	12 months after shipping if continuously stored at -80 °C

For research use only

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