

## Data Sheet

# CD8<sup>+</sup> CD62L<sup>+</sup>CD45RA<sup>+</sup>naiveTcell Fab Streptamer<sup>®</sup> Isolation Kit MB, human

Cat. No.: 6-8000-219

Version: 3.2  
Revision Date: 11.03.2020

Kit Components overview (for details see single data sheets enclosed)		
no.	description	amount
1.	Strep-Tactin <sup>®</sup> Magnetic Microbeads for Fab Streptamers; (#6-5510-050)	4 vials for 5x10 <sup>8</sup> cells each
2.	CD8 Fab-Strep human for isolation of T cells; (#6-8003-100)	1 vial for 1x10 <sup>9</sup> cells
3.	CD62L Fab-Strep human for isolation of T cells; (#6-8005-050)	1 vial for 5x10 <sup>8</sup> cells
4.	CD45RA Fab-Strep human for isolation of T cells; (#6-8007-050)	1 vial for 5x10 <sup>8</sup> cells
5.	D-Biotin stock solution for Streptamer <sup>®</sup> technology; (#6-0219-001)	3x 1 ml
6.	Streptamer <sup>®</sup> Washing Buffer (Buffer IS, 10x); (#6-5602-050)	2x 50 ml

### Background Information

The CD8<sup>+</sup> CD62L<sup>+</sup> CD45RA<sup>+</sup> naive T cell Fab Streptamer<sup>®</sup> Isolation Kit is intended for the positive serial selection of naive T cells from human peripheral blood mononuclear cells (PBMCs). Naive T cells are first labelled with magnetic Streptamers and then separated from other cells by serial positive selection in a strong magnetic field. Afterwards, the isolated cells are liberated from all labelling reagents by the addition of D-biotin (vitamin H) and washing in order to obtain a functional, completely label-free target cell preparation.

CD8<sup>+</sup> CD62L<sup>+</sup> CD45RA<sup>+</sup> positive cells are naive T cells which have not encountered their specific antigen yet in contrast to effector and memory T cells. Naive T cells circulate through the peripheral lymphoid organs in order to survey antigen-presenting cells for foreign antigen. Furthermore they express functional IL-7 receptors.

CD8 is a co-receptor for MHC class I molecules. CD62L is a leukocyte adhesion molecule (LAM) and mediates rolling interactions with the endothelium. CD45RA is an isoform of the tyrosine phosphatase CD45 containing the A exon but not the B and C exons.



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## Data Sheet

# Strep-Tactin® Magnetic Microbeads for Fab Streptamers

Cat. No.: 6-5510-050

Lot No.: 5510-

Version: 9.2

Revision Date: 11.03.2020

<b>Description</b>	<p>Strep-Tactin® covalently linked to polysaccharide coated magnetic microbeads.</p> <p>For using Streptamer® technology, <b>Strep-Tactin® Magnetic Microbeads (MB)</b> have to be combined with Fab-Streps, low affinity Fab fragments containing a Strep-tag® affinity tag, to yield magnetic Fab Streptamers.</p> <p>After isolation of the target cells on a permanent magnet (e.g. IBA's StrepMan magnet or a Dynal magnet), the magnetic Streptamers can be mildly and rapidly dissociated from the cells by using biotin yielding fully functional isolated cells for unbiased further use.</p>
<b>Form</b>	<p>Suspension in Dulbecco's phosphate buffered saline (DPBS) without Ca &amp; Mg, contains KCl and 0.1 % sodium azide. pH 7.0 – 7.5</p>
<b>Amount</b>	750 µl for isolation out of 5 x 10 <sup>8</sup> cells
<b>Stability</b>	6 months after shipping
<b>Storage</b>	recommended: 2-8°C <b>Do not freeze!</b>
<b>Shipping</b>	cool packs
<b>Hazards</b>	<p>Product is not classified as hazardous according to (EC) No 1272/2008 [CLP]. A Material Safety Data Sheet is provided.</p>

**Note:** Solution is sterile filtered. Please handle under **sterile conditions**.

Please spin down briefly to collect droplets from the tube caps.



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## Data Sheet

# Recombinant CD8 Fab-Strep human for isolation of T-cells

Cat. No.: 6-8003-100  
Lot No.: 8003-

Version: 3.2  
Revision Date: 11.03.2020

<b>Description</b>	<p><b>Recombinant low affinity Fab-Strep (Strep-tagged Fab fragment) for reversible CD8 receptor specific cell labelling using the Streptamer® technology.</b></p> <p>The Fab-Strep molecules can be multimerized on Strep-Tactin® Magnetic Microbeads or Strep-Tactin® Magnetic Nanobeads for <b>magnetic cell isolation</b>, or on Strep-Tactin® PE (or Strep-Tactin® APC) for <b>fluorescent cell staining /cell sorting</b> via the reversible interaction between Strep-tag® and Strep-Tactin®.</p> <p>The resulting magnetic or fluorescent Fab Streptamers can be used for magnetic isolation or fluorescent staining of <b>CD8 positive T-cells</b>, respectively.</p> <p>After the target cells have been stained or isolated on a StrepMan permanent magnet (microbeads) or on a Miltenyi Biotec MACS® column (nanobeads) the magnetic Fab Streptamers can be mildly and rapidly dissociated by using biotin yielding minimally manipulated target cells for unbiased further use.</p>
<b>Form</b>	Suspended in sterile PBS (Phosphate buffered saline); 0.5% human serum albumin (HSA).
<b>Amount</b>	400 µl, for isolation out of 1 x 10 <sup>9</sup> cells
<b>Stability</b>	6 months after shipping (when frozen)
<b>Storage</b>	<p>Long term storage: recommended -25 °C to -15 °C. To avoid repeated freezing and thawing material should be aliquoted.</p> <p>Short-term storage: 2-8 °C for up to one week</p>
<b>Shipping</b>	dry ice
<b>Hazards</b>	Product is not classified as hazardous according to (EC) No 1272/2008 [CLP]. A Material Safety Data Sheet is provided.

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## Data Sheet

# Recombinant CD62L Fab-Strep human for isolation of T-cells

Cat. No.: 6-8005-050  
Lot No.: 8005-

Version: 3.2  
Revision Date: 11.03.2020

<b>Description</b>	<p><b>Recombinant low affinity Fab-Strep (Strep-tagged Fab fragment) for reversible CD62L receptor specific cell labelling using the Streptamer® technology.</b></p> <p>The Fab-Strep molecules can be multimerized on Strep-Tactin® Magnetic Microbeads or Strep-Tactin® Magnetic Nanobeads for <b>magnetic cell isolation</b>, or on Strep-Tactin® PE (or Strep-Tactin® APC) for <b>fluorescent cell staining /cell sorting</b> via the reversible interaction between Strep-tag® and Strep-Tactin®.</p> <p>The resulting magnetic or fluorescent Fab Streptamers can be used for magnetic isolation or fluorescent staining of <b>CD62L positive T-cells</b>, respectively.</p> <p>After the target cells have been stained or isolated on a StrepMan permanent magnet (microbeads) or on a Miltenyi Biotec MACS® column (nanobeads) the magnetic Fab Streptamers can be mildly and rapidly dissociated by using biotin yielding minimally manipulated target cells for unbiased further use.</p>
<b>Form</b>	Suspended in sterile PBS (Phosphate buffered saline); 0.5% human serum albumin (HSA)
<b>Amount</b>	200 µl, for isolation out of 5 x 10 <sup>8</sup> cells
<b>Stability</b>	6 months after shipping (when frozen)
<b>Storage</b>	<p>Long term storage: recommended -25 °C to -15 °C. To avoid repeated freezing and thawing material should be aliquoted.</p> <p>Short-term storage: 2-8 °C for up to one week</p>
<b>Shipping</b>	dry ice
<b>Hazards</b>	Product is not classified as hazardous according to (EC) No 1272/2008 [CLP]. A Material Safety Data Sheet is provided.

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## Data Sheet

# Recombinant CD45RA Fab-Strep human for isolation of T-cells

Cat. No.: 6-8007-050  
Lot No.: 8007-

Version: 3.2  
Revision Date: 11.03.2020

<b>Description</b>	<p><b>Recombinant low affinity Fab-Strep (Strep-tagged Fab fragment) for reversible CD45RA receptor specific cell labelling using the Streptamer® technology.</b></p> <p>The Fab-Strep molecules can be multimerized on Strep-Tactin® Magnetic Microbeads or Strep-Tactin® Magnetic Nanobeads for <b>magnetic cell isolation</b>, or on Strep-Tactin® PE (or Strep-Tactin® APC) for <b>fluorescent cell staining /cell sorting</b> via the reversible interaction between Strep-tag® and Strep-Tactin®.</p> <p>The resulting magnetic or fluorescent Fab Streptamers can be used for magnetic isolation or fluorescent staining of <b>CD45RA positive T-cells</b>, respectively.</p> <p>After the target cells have been stained or isolated on a StrepMan permanent magnet (microbeads) or on a Miltenyi Biotec MACS® column (nanobeads) the magnetic Fab Streptamers can be mildly and rapidly dissociated by using biotin yielding minimally manipulated target cells for unbiased further use.</p>
<b>Form</b>	Suspended in sterile PBS (Phosphate buffered saline); 0.5% human serum albumin (HSA)
<b>Amount</b>	200 µl, for isolation out of 5 x 10 <sup>8</sup> cells
<b>Stability</b>	6 months after shipping (when frozen)
<b>Storage</b>	<p>Long term storage: recommended -25 °C to -15 °C. To avoid repeated freezing and thawing material should be aliquoted.</p> <p>Short-term storage: 2-8 °C for up to one week</p>
<b>Shipping</b>	dry ice
<b>Hazards</b>	Product is not classified as hazardous according to (EC) No 1272/2008 [CLP]. A Material Safety Data Sheet is provided.

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## Data Sheet

# D-Biotin Stock Solution for Streptamer® technology

Cat. No.: 6-0219-001

Lot No.: 0219 -

Version: 4.2

Revision Date: 11.03.2020

<b>Description</b>	D-Biotin for preparation of removal buffer for the use in Streptamer® technology.  To yield fully functional, highly pure and non-induced cells, fluorescent or magnetic Streptamers are efficiently removed from the labeled cells by the addition of biotin.
<b>Form</b>	100 mM D-Biotin; 0.9 % (w/w) NaCl; pH 7.4
<b>Amount</b>	1 ml
<b>Stability</b>	12 months after shipping
<b>Storage</b>	recommended: -25 °C to -15 °C
<b>Shipping</b>	room temperature, cooled or frozen
<b>Hazards</b>	Product is not classified as hazardous according to (EC) No 1272/2008 [CLP]. A Material Safety Data Sheet is provided.

**Note:** Solution is sterile filtered and does not contain any preservative.  
Please handle under **sterile conditions**. Please dilute according to manual prior to use.



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## Data Sheet

# Streptamer® Washing Buffer (10 x Buffer IS)

Cat. No.: 6-5602-050

Lot No.: 5602 -

Version: 3.3

Revision Date: 11.03.2020

<b>Description</b>	<p>Buffer IS for preparation of wash buffer for the use in Streptamer® technology.</p> <p>Buffer IS, 10 x concentrated, contains 5 % BSA (w/v) in 10 x Phosphate Buffered Saline (PBS); pH 7.3 – 7.5</p> <p>Salt crystals may form when stored at 2-8°C. Incubate at room temperature for 30-60 min to redissolve the crystals.</p> <p>If the buffer was shipped on dry ice and is frozen, let it thaw slowly (e.g. overnight in the refrigerator) before starting the experiments.</p>
<b>Amount</b>	50 ml
<b>Stability</b>	12 months after shipping
<b>Storage</b>	recommended: 2-8 °C
<b>Shipping</b>	room temperature or frozen
<b>Hazards</b>	Product is not classified as hazardous according to (EC) No 1272/2008 [CLP]. A Material Safety Data Sheet is provided.
<b>Working solution</b>	Dilute with 450 ml <b>sterile</b> water.
<b>Note</b>	Solution is sterile filtered and does not contain any preservatives. Please handle <b>under sterile conditions</b> .



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