



**IBA Lifesciences GmbH**  
Rudolf-Wissell-Str. 28  
37079 Goettingen  
Germany  
Tel.: +49 (0) 551-5 06 72-0  
E-mail: [info@iba-lifesciences.com](mailto:info@iba-lifesciences.com)  
[www.iba-lifesciences.com](http://www.iba-lifesciences.com)

## Data Sheet

# MHC I-Strep H-2 K<sup>d</sup>; *P. falciparum* CSP (NYDNAGTNL)

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<b>Description</b>	Recombinant murine MHC class I allele (H-2 K <sup>d</sup> ) fused to a Twin-Strep-tag <sup>®</sup> (MHC I-Strep) and refolded with <i>P. falciparum</i> CSP <sub>(39-47)</sub> peptide (NYDNAGTNL).
<b>Form</b>	Dissolved in DPBS (Dulbecco's phosphate buffered saline) without Ca & Mg, contains KCl; pH 7.9 - 8.1 (sterile solution without preservatives).
<b>Concentration</b>	250 µg/ml
<b>Amount</b>	40 µl
<b>Stability</b>	12 months after shipping (if stored at -80 °C). Handle under <b>sterile</b> conditions and avoid multiple freeze-thaw cycles.
<b>Storage</b>	Long-term: -80 °C; short-term: 2-8 °C
<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.
<b>Application</b>	MHC I-Streps are used for the MHC I Streptamer <sup>®</sup> approach, based on our Strep-tag <sup>®</sup> technology. Multimerization of MHC I-Streps on Strep-Tactin <sup>®</sup> increases the avidity of low affinity monomers. The following applications are possible: <b>Fluorescent cell staining and sorting</b> with fluorescently conjugated Strep-Tactin <sup>®</sup> , <b>magnetic cell isolation</b> with Strep-Tactin <sup>®</sup> Magnetic Microbeads or <b>affinity chromatographic cell isolation</b> with Strep-Tactin <sup>®</sup> TACS Agarose columns. Biotin reverses the multimerization and causes the dissociation of all reagents from the cells, yielding label-free populations for unbiased further use.
<b>Recommended usage</b>	0.8 µl per 2 x 10 <sup>6</sup> total cells for fluorescent staining or magnetic isolation

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