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Data Sheet

Strep-Tactin® Superflow®

50% suspension

Cat. No.: 2-1206-025

Lot No.: 1206-

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Description	Immobilized streptavidin variant called Strep-Tactin® (5 mg/ml resin) especially optimized for purification of Strep-tag®II and Twin-Strep-tag® fusion proteins*.
Support	6% agarose, crosslinked
Form	50% suspension in buffer (100 mM Tris/HCl pH 8.0, 1 mM EDTA, 150 mM NaCl, 0.02% sodium azide)
Biotin binding activity	> 300 nmol/ml resin
Stability	6 months after shipping
Storage	recommended: 2—8 °C
Shipping	room temperature
Hazards	Product is not classified as hazardous according to (EC) No 1272/2008 [CLP]. A Material Safety Data Sheet is provided.

Application	To allow an efficient binding of Twin-Strep-tag® or Strep-tag®II proteins to Strep-Tactin® it is strongly recommend using column purification instead of batch purification. It is crucial that protein binding takes place on the column. Even a pre-incubation of resin and lysate prior to filling the resin into a column will lead to decreased protein yields. Batch purification should be performed with MagStrep “type3” XT beads. Further, prolonged batch incubations increase the risk of proteolytic degradation of the target protein including cleavage of the tag.
Elution	1x Buffer E, Strep-Tactin® Elution Buffer with Desthiobiotin: 100 mM Tris/HCl pH 8.0, 150 mM NaCl, 1 mM EDTA, 2.5 mM desthiobiotin. It is possible to use 5—10 mM desthiobiotin to get the target protein eluted at higher concentration.
Regeneration	1x Buffer R, Strep-Tactin® Regeneration Buffer with HABA: 100 mM Tris/Cl, 150 mM NaCl, 1 mM EDTA, 1 mM HABA (hydroxy-azophenyl-benzoic acid). If HABA cannot be efficiently removed from Strep-Tactin® Superflow® by using Buffer W, we recommend using Buffer W at pH 10.5 or alternatively 100 mM Tris base.

* Voss, S. & Skerra, A. (1997) Mutagenesis of a flexible loop in streptavidin leads to higher affinity for the *Strep*-tag II peptide and improved performance in recombinant protein purification. *Protein Eng.* 10, 975-982.

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