

## Recent patent applications in protein purification

Patent #	Subject	Assignee	Inventor(s)	Priority application date	Publication date
WO 200483124	A method for the manufacture of magnetic metal oxide microparticles for use in medical binding material, e.g., as a reagent, diagnostic agent, cell labeling agent, enzyme fixative or protein purification agent.	Kansai Technology Licensing Org. Co. (Kyoto, Japan)	Nakagawa T, Okitsu K, Seino S, Yamamoto T	3/17/2003	9/30/2004
US 20040180415	A method of purifying a fusion protein comprising a metal ion affinity peptide, by contacting a sample comprising the fusion protein with different metal ion chelate resins with their respective immobilized metal ions; provides a high degree of purification with a single chromatographic step.	Jokhadze GG, Tchaga GS	Jokhadze GG, Tchaga GS	1/21/2003	9/16/2004
WO 200478124	A method of purifying MDA-7 (melanoma differentiation-associated 7, also known as interleukin-24) protein from a cell, comprising subjecting a cell extract or supernatant comprising MDA-7 protein to affinity chromatography.	Introgen Therapeutics (Austin, TX, USA); University of Texas System (Austin, TX, USA)	Chada S, Grimm E, Meyn RE, Mhashilkar A, Mumm JB, Ramesh R	12/10/2003	9/16/2004
US 20040142429	The expression, purification and structural recovery of hydrophobic proteins, polypeptides or peptides, comprising expressing and processing a fusion protein targeted to inclusion bodies; useful for producing drugs and vaccines.	Grant CWM; Jones D	Grant CWM, Jones D	1/25/2001	7/22/2004
WO 200456850	A mutant protein with improved secretion in a Gram-positive bacterium without affecting biological activity; useful in improving yield and facilitating downstream processing for protein purification.	Ghent University (Ghent, Belgium); VIB (Ghent, Belgium)	Neirynck S, Steidler L	12/19/2002	7/8/2004
WO 200443997	Chimeric autoprocessing polypeptides, useful in protein engineering (e.g., protein purification, affinity selection of display phages and in post-translational ligation of proteins).	Yeda Research & Development Co. (Rehovot, Israel)	Amitai G, Plietokovski S	11/12/2002	5/27/2004
CN 1497047	A low-cost expression system for the production, preparation and application of recombinant tryptophanase at high yield and purity.	Wuhan University (Wuhan, China)	Gong R, Wang Y	10/18/2002	5/19/2004
WO 200439996	A method for preparing and purifying a recombinant human IFN- $\alpha$ 2b by culturing the recombinant <i>Pichia pastoris</i> in complex/defined salt culture medium and purifying recombinant human IFN- $\alpha$ 2b protein from the culture medium.	Cadila Healthcare Ltd. (Ahmedabad, India)	Lohray BB, Pandit H, Patel M, Shah S	11/1/2002	5/13/2004
JP 2004121153	A novel tag addition protein base expression vector expressing tag addition protein having tag (A) and tag (B); useful for high-purity affinity purification of a protein or a conjugated protein.	Japan Science and Technology Corporation (Tokyo)	—	10/4/2002	4/22/2004
WO 200428658	A method for identifying chromatographic parameters for the separation of biomolecules, using an array of wells containing different combinations of binding and nonbinding components; useful in determining separation conditions (type of medium, starting buffer and elution buffer) for particular separations, e.g., purification of therapeutic, diagnostic or technical proteins, especially for profiling or differential display, prepurification in two-dimensional electrophoresis and for proteome analysis.	Charité - University Medicine (Berlin, Germany)	Schlüter H	9/19/2002	4/8/2004

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