

## Title (en)

COLLAGEN-BASED METHODS AND FORMULATIONS FOR THE TREATMENT OF IMMUNE SYSTEM-MEDIATED DISEASES

## Title (de)

VERFAHREN UND FORMULIERUNGEN AUF COLLAGENBASIS FÜR DIE BEHANDLUNG VON ERKRANKUNGEN, DIE VON IMMUNSYSTEM AUSGEHEN

## Title (fr)

METHODES ET FORMULATIONS A BASE DE COLLAGENE POUR LE TRAITEMENT DE MALADIES D'ORIGINE IMMUNOLOGIQUE

## Publication

**EP 0805686 A1 19971112 (EN)**

## Application

**EP 96902148 A 19960111**

## Priority

- US 9600533 W 19960111
- US 37038895 A 19950110

## Abstract (en)

[origin: WO9621458A1] The invention provides novel methods and compositions for the treatment of immune system-mediated diseases, including rheumatoid arthritis. The subject compositions comprise one or more different types of collagen or collagen derivatives and a mucosa binding structure. Specific combinations of collagen and/or collagen derivatives may be used to treat specific immune system-mediated diseases. The collagen(s) and/or collagen(s) derivatives used in the subject compositions may be either obtained from natural sources or produced by recombinant genetic engineering techniques and/or chemical modification means. Another aspect of the invention is to provide methods for treating immune system-mediated diseases by administering an effective amount of the subject collagen-containing compositions. The methods of the invention involve the oral administration of a collagen or collagens found in a specific tissue so as to induce the suppression (immunological tolerance) of inflammation against the tissue from which the collagen is found to occur in nature. The methods of the invention include the administration of the subject collagen(s) and/or collagen derivative(s) containing compositions into the intestines so as to induce immune tolerance, e.g., oral administration.

## IPC 1-7

**A61K 38/17**; **A61K 38/00**; **A61K 39/00**

## IPC 8 full level

**A61K 35/74** (2006.01); **A61K 38/00** (2006.01); **A61K 38/17** (2006.01); **C12N 15/09** (2006.01); **A61P 37/00** (2006.01); **C07K 14/78** (2006.01); **C07K 19/00** (2006.01); **C12P 21/00** (2006.01)

## CPC (source: EP)

**A61P 37/00** (2018.01); **C07K 14/78** (2013.01); **A61K 38/00** (2013.01); **Y02A 50/30** (2018.01)

## Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

## DOCDB simple family (publication)

**WO 9621458 A1 19960718**; AU 4657096 A 19960731; BR 9606753 A 19980106; CA 2210088 A1 19960718; EP 0805686 A1 19971112; FI 972929 A0 19970710; FI 972929 A 19970910; HU P9800829 A2 19980728; HU P9800829 A3 19990928; JP H10512554 A 19981202; MX 9705198 A 19971231; NO 973193 D0 19970709; NO 973193 L 19970909

## DOCDB simple family (application)

**US 9600533 W 19960111**; AU 4657096 A 19960111; BR 9606753 A 19960111; CA 2210088 A 19960111; EP 96902148 A 19960111; FI 972929 A 19970710; HU P9800829 A 19960111; JP 52185896 A 19960111; MX 9705198 A 19960111; NO 973193 A 19970709