

Title (en)  
THERAPEUTIC RECOMBINANT KLOTHO PROTEINS AND COMPOSITIONS AND METHODS INVOLVING THE SAME

Title (de)  
THERAPEUTISCHE REKOMBINANTE KLOTHO-PROTEINE SOWIE ZUSAMMENSETZUNGEN UND VERFAHREN DAMIT

Title (fr)  
PROTÉINES KLOTHO RECOMBINÉES THÉRAPEUTIQUES ET COMPOSITIONS ET MÉTHODES COMPRENANT CELLES-CI

Publication  
**EP 3464608 A4 20200129 (EN)**

Application  
**EP 17807601 A 20170602**

Priority

- US 201662344743 P 20160602
- US 201662375046 P 20160815
- US 201662401600 P 20160929
- US 201662425237 P 20161122
- US 201762456318 P 20170208
- US 2017035755 W 20170602

Abstract (en)  
[origin: WO2017210607A1] Recombinant Klotho proteins and variants, nucleic acids encoding the same, cell lines and suspension cultures expressing the same, and method of manufacturing and administering the same are disclosed. Proteins include solubility or half-life-extending features like glycosylation and fusion protein tags. Proteins have at least 85% amino acid sequence identity to a portion of human alpha Klotho isoform 1. Treatment protocols include determining serum soluble Klotho level in a subject, calculating a dosage of the protein sufficient to raise the serum soluble Klotho level in the subject to a predetermined level, administering the dosage of protein to the subject, such as by bolus or gradual injection, determining a rate of Klotho protein decline in the serum of the subject following administration of the first dosage, calculating a time and amount of a subsequent dosage of the Klotho protein, and administering the subsequent dosage of Klotho protein to the subject.

IPC 8 full level  
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Citation (search report)

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- [X] YAMAZAKI Y ET AL: "Establishment of sandwich ELISA for soluble alpha-Klotho measurement: Age-dependent change of soluble alpha-Klotho levels in healthy subjects", BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, ELSEVIER, AMSTERDAM, NL, vol. 398, no. 3, 30 July 2010 (2010-07-30), pages 513 - 518, XP027185031, ISSN: 0006-291X, [retrieved on 20100701], DOI: 10.1016/J.BBRC.2010.06.110
- [X] KATO YUKINARI ET AL: "Establishment of the anti-Klotho monoclonal antibodies and detection of Klotho protein in kidneys", BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, ELSEVIER, AMSTERDAM, NL, vol. 267, no. 2, 19 January 2000 (2000-01-19), pages 597 - 602, XP002572556, ISSN: 0006-291X, DOI: 10.1006/BBRC.1999.2009
- See also references of WO 2017210607A1

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