

CLAIMS

1. A method for increasing the secretion levels without affecting the biological functions of recombinant human IL-2 and its derived muteins and that is characterized
5 by the introduction of a single non-conservative mutation at position 35 of its primary sequence selected from the group consisting of;

- K35E,
- K35D and
- 10 - K35Q.

2. The method according to claim 1 wherein the recombinant human IL-2 and the muteins derived thereof are fused to any of the proteins selected from the group comprising:

- 15 - capsid proteins of the filamentous phages,
- albumin
- Fc region of the antibodies,
- complete antibodies and
- antibody fragments including their variable domains.

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3. The method according to any of the claims 1 to 2 wherein the host is selected from the group comprising:

- E. coli,
- mammalian cells and
- 25 - yeasts

4. Proteins obtained by the method according to any one of the claims 1 to 3 selected from the group comprising:

- 30 SEQ ID NO. 4,
- SEQ ID NO. 5,

5 SEQ ID NO. 6,
 SEQ ID NO. 7,
 SEQ ID NO. 8,
 SEQ ID NO. 9,
 SEQ ID NO. 10,
 SEQ ID NO. 11,
 SEQ ID NO. 12,
 SEQ ID NO. 13,
 SEQ ID NO. 14,
10 SEQ ID NO. 15,
 SEQ ID NO. 16,
 SEQ ID NO. 17 and
 SEQ ID NO. 18.

15 5. Use of the method according to claim 3 at the laboratory or industrial scale.