

Title (en)  
CHEMICALLY-MODIFIED HUMAN GROWTH HORMONE CONJUGATES

Title (de)  
CHEMISCH MODIFIZIERTE HUMANE WACHSTUMSHORMONKONJUGATE

Title (fr)  
CONJUGUES DE L'HORMONE DE CROISSANCE HUMAINE CHIMIQUEMENT MODIFIEE

Publication  
**EP 1453859 A2 20040908 (EN)**

Application  
**EP 02803695 A 20021120**

Priority  
• US 0237270 W 20021120  
• US 33190701 P 20011120

Abstract (en)  
[origin: WO03044056A2] The present invention provides a chemically modified human Growth Hormone (hGH) prepared by binding a water soluble polymer to the protein. The chemically-modified protein according to the present invention may have a much longer lasting hGH activity than that of the unmodified hGH, enabling reduced dose and scheduling opportunities.

IPC 1-7  
**C07K 14/61**; **A61K 47/48**; **A61K 38/27**

IPC 8 full level  
**A61K 47/48** (2006.01); **A61P 5/06** (2006.01); **A61P 13/12** (2006.01); **A61P 15/00** (2006.01); **A61K 38/27** (2006.01); **C07K 14/61** (2006.01); **C07K 17/08** (2006.01); **C07K 17/10** (2006.01)

IPC 8 main group level  
**C07K** (2006.01)

CPC (source: EP KR)  
**A61K 38/27** (2013.01 - KR); **A61K 47/50** (2017.08 - KR); **A61K 47/60** (2017.08 - EP); **A61P 5/06** (2018.01 - EP); **A61P 13/12** (2018.01 - EP); **A61P 15/00** (2018.01 - EP); **C07K 14/61** (2013.01 - EP KR)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)  
**WO 03044056 A2 20030530**; **WO 03044056 A3 20030821**; AP 2004003050 A0 20040630; AU 2002356990 A1 20030610; BR 0214451 A 20060530; CA 2467731 A1 20030530; CN 1608079 A 20050420; CO 5580794 A2 20051130; EA 008505 B1 20070629; EA 200400565 A1 20050630; EA 200700431 A1 20080228; EC SP045114 A 20040723; EP 1453859 A2 20040908; GE P20063860 B 20060626; HR P20040448 A2 20060228; HU P0500997 A2 20071128; IL 162031 A0 20051120; IS 7268 A 20040517; JP 2005525302 A 20050825; JP 2006321808 A 20061130; KR 20050044858 A 20050513; KR 20070072924 A 20070706; MA 27544 A1 20051003; MX PA04004809 A 20040811; NO 20042182 L 20040811; OA 13063 A 20061110; PL 374354 A1 20051017; RS 53104 A 20061027; TN SN04090 A1 20060601; ZA 200403907 B 20071227

DOCDB simple family (application)  
**US 0237270 W 20021120**; AP 2004003050 A 20021120; AU 2002356990 A 20021120; BR 0214451 A 20021120; CA 2467731 A 20021120; CN 02825928 A 20021120; CO 04046633 A 20040520; EA 200400565 A 20021120; EA 200700431 A 20021120; EC SP045114 A 20040520; EP 02803695 A 20021120; GE AP2002005599 A 20021120; HR P20040448 A 20040520; HU P0500997 A 20021120; IL 16203102 A 20021120; IS 7268 A 20040517; JP 2003545691 A 20021120; JP 2006193577 A 20060714; KR 20047007708 A 20040520; KR 20077011730 A 20070523; MA 27686 A 20040519; MX PA04004809 A 20021120; NO 20042182 A 20040526; OA 1200400143 A 20021120; PL 37435402 A 20021120; TN SN04090 A 20040520; YU P53104 A 20021120; ZA 200403907 A 20040520