

Title (en)

HEPARAN SULPHATE OLIGOSACCHARIDES HAVING HEPATOCYTE GROWTH FACTOR BINDING AFFINITY.

Title (de)

HEPARIN SULFAT OLIGOSACCHARIDE MIT HEPATOZYTWACHTUMSFAKTOR BINDUNGS-AFFINITÄT.

Title (fr)

OLIGOSACCHARIDES D'HEPARANE-SULFATE PRESENTANT UNE AFFINITE DE LIAISON AVEC LE FACTEUR DE CROISSANCE DES HEPATOCYTES.

Publication

**EP 0642533 A1 19950315 (EN)**

Application

**EP 94910470 A 19940324**

Priority

- GB 9400615 W 19940324
- GB 9306255 A 19930325

Abstract (en)

[origin: WO9421689A1] Oligosaccharides having a high specific binding affinity for HGF growth factors and made up of relatively low molecular weight sulphated oligosaccharide chains are disclosed. The chains are composed of at least three disaccharide units including one or more internal sequences of an N-sulphated D-glucosamine 6-sulphate residue and an L-iduronic acid residue. A method is also disclosed for preparing these oligosaccharides in a purified and relatively homogeneous state from heparan sulphate. For the best HGF-binding affinity there are preferably at least five disaccharide units. The most favoured structures contain twelve or fourteen monosaccharide residues in all and include a relatively high proportion of 6-O-sulphated hexosamines, e.g. more than 30 % or even 50 %, as compared to oligosaccharide chains of unmodified native heparan sulphate. These oligosaccharides can modulate HGF activity, and uses thereof as drugs for therapeutic purposes in medicine are also disclosed.

IPC 1-7

**C08B 37/10**; **A61K 31/725**

IPC 8 full level

**C08B 37/10** (2006.01); **A61K 31/715** (2006.01); **C07H 3/06** (2006.01); **C08B 37/00** (2006.01)

CPC (source: EP)

**C07H 3/06** (2013.01); **C08B 37/0078** (2013.01)

Citation (search report)

See references of WO 9421689A1

Designated contracting state (EPC)

AT BE CH DE DK FR GB IT LI NL SE

DOCDB simple family (publication)

**WO 9421689 A1 19940929**; AU 6287594 A 19941011; CA 2136531 A1 19940929; EP 0642533 A1 19950315; GB 9306255 D0 19930519; JP H07507596 A 19950824

DOCDB simple family (application)

**GB 9400615 W 19940324**; AU 6287594 A 19940324; CA 2136531 A 19940324; EP 94910470 A 19940324; GB 9306255 A 19930325; JP 52083594 A 19940324