

Title (en)

MARKING PRECURSOR WITH SQUARIC ACID COUPLING

Title (de)

MARKIERUNGSVORLÄUFER MIT QUADRATSÄURE-KOPPLUNG

Title (fr)

PRÉCURSEUR DE MARQUAGE COMPRENANT UN COUPLAGE PAR ACIDE QUADRATIQUE

Publication

**EP 3870243 A1 20210901 (DE)**

Application

**EP 19800930 A 20191021**

Priority

- DE 102018126558 A 20181024
- EP 2019078614 W 20191021

Abstract (en)

[origin: WO2020083853A1] The invention relates to a marking precursor comprising a chelator or fluorination group for radiolabelling with <sup>44</sup>Sc, <sup>47</sup>Sc, <sup>55</sup>Co, <sup>62</sup>Cu, <sup>64</sup>Cu, <sup>67</sup>Cu, <sup>66</sup>Ga, <sup>67</sup>Ga, <sup>68</sup>Ga, <sup>89</sup>Zr, <sup>86</sup>Y, <sup>90</sup>Y, <sup>90</sup>Nb, <sup>99m</sup>Tc, <sup>111</sup>In, <sup>135</sup>Sm, <sup>140</sup>Pr, <sup>159</sup>Gd, <sup>149</sup>Tb, <sup>160</sup>Tb, <sup>161</sup>Tb, <sup>165</sup>Er, <sup>166</sup>Dy, <sup>166</sup>Ho, <sup>175</sup>Yb, <sup>177</sup>Lu, <sup>186</sup>Re, <sup>188</sup>Re, <sup>213</sup>Bi and <sup>225</sup>Ac or with <sup>18</sup>F, <sup>131</sup>I or <sup>211</sup>At, and one or two biological targeting vectors which are coupled to the chelator or fluorinating group via one or more squaric acid groups. Formula (I).

IPC 8 full level

**A61K 51/04** (2006.01); **A61K 101/02** (2006.01); **A61K 103/00** (2006.01); **A61K 103/10** (2006.01); **A61K 103/30** (2006.01); **A61K 103/40** (2006.01)

CPC (source: CN EP KR US)

**A61K 47/54** (2017.07 - US); **A61K 51/0402** (2013.01 - EP); **A61K 51/0446** (2013.01 - EP KR); **A61K 51/0455** (2013.01 - EP KR); **A61K 51/0478** (2013.01 - US); **A61K 51/0482** (2013.01 - CN US); **A61K 51/0489** (2013.01 - EP KR); **A61K 51/0497** (2013.01 - EP KR US); **C07C 275/16** (2013.01 - EP KR); **C07C 323/60** (2013.01 - EP KR); **C07D 245/02** (2013.01 - EP KR); **C07D 253/02** (2013.01 - EP KR); **C07D 257/02** (2013.01 - EP KR); **C07D 401/14** (2013.01 - CN EP KR); **C07D 403/12** (2013.01 - EP KR); **C07F 5/025** (2013.01 - EP KR); **C07F 9/3808** (2013.01 - EP KR); **C07F 9/3873** (2013.01 - EP KR); **C07F 9/6506** (2013.01 - EP KR); **C07F 9/6515** (2013.01 - EP KR); **C07F 9/65583** (2013.01 - EP KR); **C07B 2200/05** (2013.01 - EP KR); **C07C 2601/04** (2017.04 - EP KR)

Citation (search report)

See references of WO 2020083853A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2020083853 A1 20200430**; AU 2019365377 A1 20210429; BR 112021007659 A2 20210727; CA 3116272 A1 20200430; CN 113164630 A 20210723; CN 114796533 A 20220729; CN 114796533 B 20240126; DE 102018126558 A1 20200430; EP 3870243 A1 20210901; EP 4082581 A1 20221102; JP 2022509385 A 20220120; KR 20210083289 A 20210706; US 11833229 B2 20231205; US 2021369877 A1 20211202; US 2022331456 A1 20221020

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