



(43) International Publication Date  
2 June 2016 (02.06.2016)

(10) International Publication Number  
**WO 2016/086021 A1**

- (51) **International Patent Classification:**  
*C07K 14/78* (2006.01) *G01N 33/574* (2006.01)  
*C07K 14/47* (2006.01)
- (21) **International Application Number:**  
PCT/US2015/062485
- (22) **International Filing Date:**  
24 November 2015 (24.11.2015)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**  
62/084,298 25 November 2014 (25.11.2014) US
- (71) **Applicant:** BRISTOL-MYERS SQUIBB COMPANY  
[US/US]; Route 206 & Province Line Road, Princeton, NJ  
08543 (US).
- (72) **Inventors:** MORIN, Paul, E.; c/o Bristol-Myers Squibb  
Company, Route 206 & Province Line Rd., Princeton, NJ  
08543 (US). DONNELLY, David; c/o Bristol-Myers  
Squibb Company, Route 206 & Province Line Rd., Prin-  
ceton, NJ 08543 (US). LIPOVSEK, Dasa; 45 Sunset  
Road, Cambridge, MA 02138 (US). GOKEMEIJER, Jo-  
chem; 403 Commonwealth Ave., #3R, Boston, MA 02215  
(US). JURE-KUNKEL, Maria, N.; Route 206 & Province  
Line Rd., Princeton, NJ 08543 (US). FABRIZIO, David;  
79 Lincoln Avenue, South Hamilton, MA 01982 (US).  
WRIGHT, Martin, C.; 100 Beaver Street, Waltham, MA  
02453 (US). DISCHINO, Douglas; 76 Louis Road, Mid-  
dlefield, CT 06465 (US). BONACORSI, Samuel, J.; c/o  
Bristol-Myers Squibb Company, Route 206 & Province  
Line Rd., Princeton, NJ 08543 (US). SMITH, Ralph,  
Adam; c/o Bristol-Myers Squibb Company, Route 206 &  
Province Line Rd., Princeton, NJ 08543 (US). LAFONT,

Virginie; c/o Bristol-Myers Squibb Company, Route 206  
& Province Line Rd., Princeton, NJ 08543 (US).

- (74) **Agents:** REMILLARD, Jane, E. et al.; Nelson Mullins  
Riley & Scarborough LLP, One Post Office Square, Bo-  
ston, MA 02109-2127 (US).

(81) **Designated States** (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY,  
BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM,  
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,  
HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR,  
KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG,  
MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM,  
PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC,  
SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN,  
TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) **Designated States** (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ,  
TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU,  
TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE,  
DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU,  
LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK,  
SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, KM, ML, MR, NE, SN, TD, TG).

**Declarations under Rule 4.17:**

— of inventorship (Rule 4.17(iv))

**Published:**

— with international search report (Art. 21(3))

(54) **Title:** NOVEL PD-L1 BINDING POLYPEPTIDES FOR IMAGING

(57) **Abstract:** Provided herein are novel <sup>10</sup>Fn3 domains which specifically bind to PD-L1, as well as imaging agents based on the same for diagnostics.



WO 2016/086021 A1