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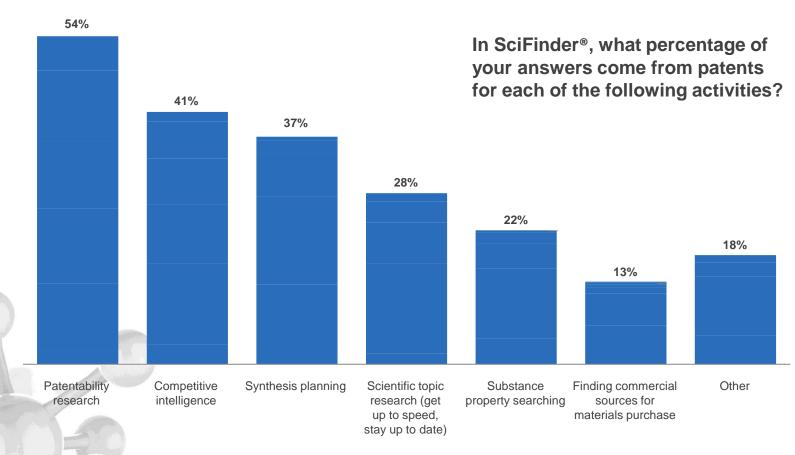
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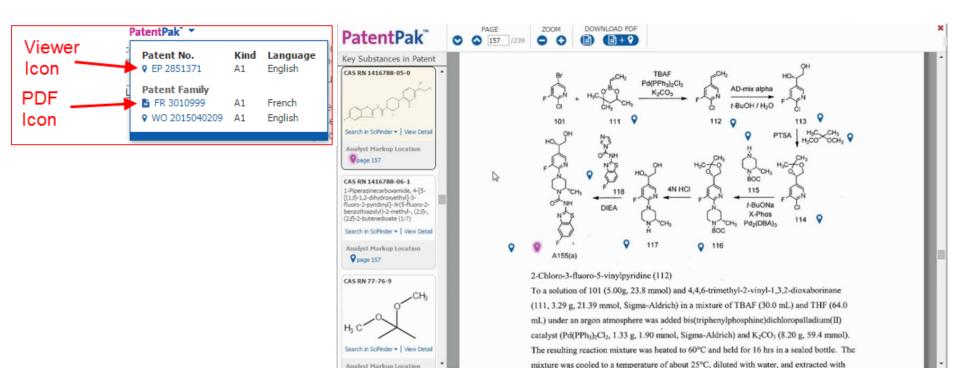
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Analyze Refine Categorize Analyze by: Author Name Booth Jean Paul 1	Sort by: Accession Number O of 3 References Selected	(51) International Patent Classification: H01L 21/266 (2006.01) H01L 21/2065 (2006.01) (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FL, GB, CD, GE, GH, GM, GT, HN, HR, HU, DD, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, JJ, TM, TN, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
Fujita Minoru 1 Hattori Kazuhiro 1 Hibi Mikiharu 1 Kajii Yoshio 1	From PCT Int. App A method for The method includes app frequency (R set of charac processing cl	 (26) Funication Language: English (30) Priority Data: 61/078,739 7 July 2008 (07.07.2008) US (71) Applicant (for all designated States except US): LAM RESEARCH CORPORATION [US/US]; 4650 Cushing Parkway, Fremont, CA 94538 (US). (72) Inventors' Applicants (for US only): BOOTH, Jean-paul [FR/US]; 4650 Cushing Parkway, Fremont, CA 94538 (US). KEIL, Douglas, L. [US/US]; 4650 Cushing Park way, Fremont, CA 94538 (US). (74) Ageu: NGUYEN, Joseph, A.; P.O. Box 700640, San

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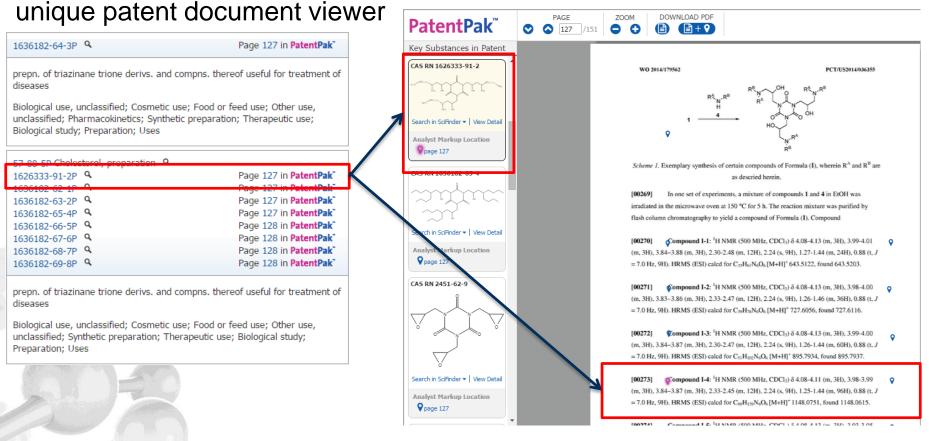




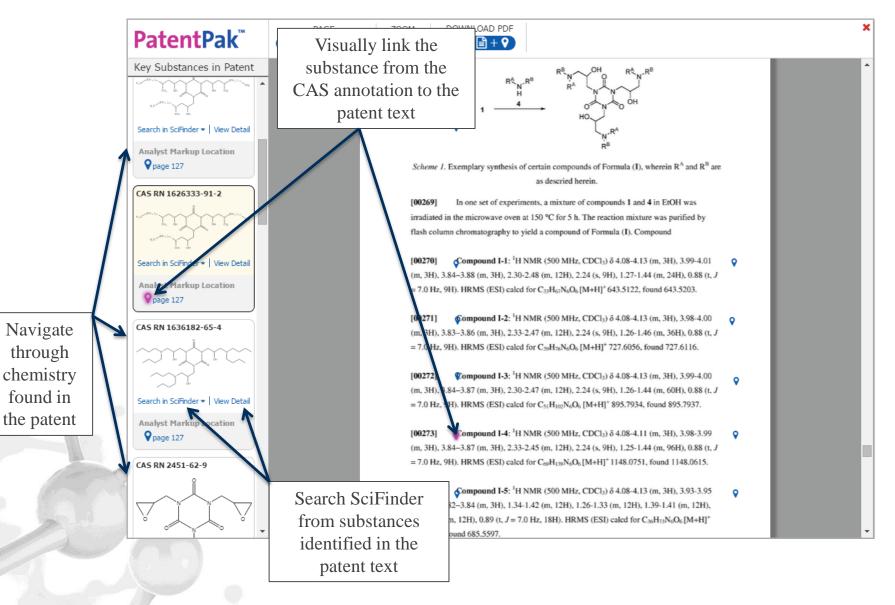
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	 MetwoosNow¹⁰ 	
	Procedure	
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	 Stir the mixture of 7-ethynyl-4-methor- ycarbonylmethyl-2H-chromen-2-one (400 mg, 1.65 mmol), 1- azidsundecane (358 mg, 0.17 mmol), (+)-sodum L-ascorbate (360 mg, 1.82 mmol) in t-8uOH(water (15 mL/15 mL) at room temperature for 4 	mg, 1.82 mmol), copper(II) sulfate pentahydrate / . 4 hours.
\langle	 Stor the mixture of 7-relation/4-mixture yearboxylexthyl-2H-chromese-Zenel 600 mg, L45 mmd), 1- asstandackaral (258), mg, 0.17 mmd), (-3, 2004mi, -3xcortable (360 mg, 1.42 mmd) in t-BuOH/water (15 mt,15 mt) at room temperature for 4 2. Add water to the mixture. 	mg, 1.62 mmai), copper(II) sulfate pentahydrate if. 4 hours.
\langle	mg, 0.17 mmol), (+)-sodium L-ascorbate (360 mg, 1.82 mmol) in t-BuOH/water (15 mL/15 mL) at room temperature for 4 2. Add water to the moture.	mg, 1.82 mmai), copper(II) sulfate pentahydrato /d. 4 hours.
	mg, 0.12 mmd), (+)-sodum L-ascetale (380 mg, 1.42 mmd) in E8u0H/water (15 mL/15 mL) at room temperature for 4 2. Add vater to the minture.	mg, 1.82 mmol), copper(II) sulfate pentahydrate of h hours.

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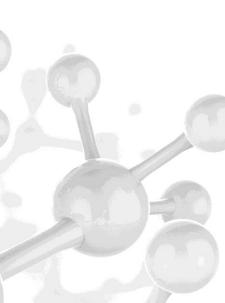
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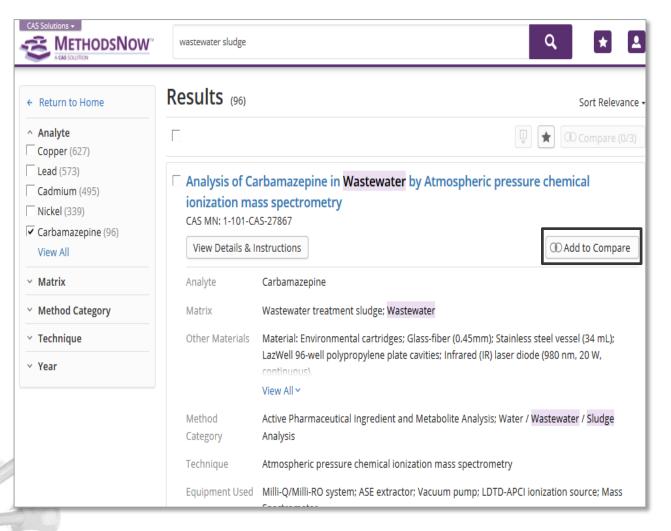


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Iron (242)	Enrofloxacin (110)	α-Endosulfan (74)
Arsenic (209)	Chromium(6+) (107)	p,p'-DDD (74)
2,2'-Bis(4-	Uranium (107)	Carbofuran (73)
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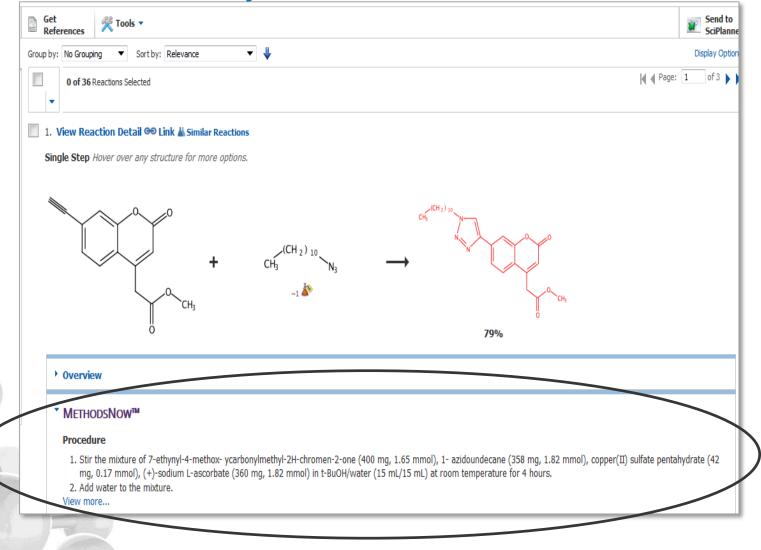


	NOW wastewater sludge	۹ * ۱
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Title	Analysis of Carbamazepine in Wastewater by Atmospheric pressure chemical ionization mass spectrometry	Analysis of Carbamazepine in Wastewater by Atmospheric pressure chemical ionization mass spectrometry
CAS Method Number	1-101-CAS-27867	1-101-CAS-29149
Method Category	Active Pharmaceutical Ingredient and Metabolite Analysis; Water / Wastewater / Sludge Analysis	Active Pharmaceutical Ingredient and Metabolite Analysis; Water / <mark>Wastewater</mark> / <mark>Sludge</mark> Analysis
Technique	Atmospheric pressure chemical ionization mass spectrometry	Atmospheric pressure chemical ionization mass spectrometry
Analyte	Carbamazepine	Carbamazepine
Matrix	Wastewater treatment sludge; Wastewater	Wastewater treatment sludge; Wastewater
Other Materials	Environmental cartridges; Glass-fiber (0.45mm); Stainless steel vessel (34 mL); LazWell 96-well polypropylene plate cavities: Infrared (IR) laser diode (980 nm, 20 W.	Environmental cartridges; Glass-fiber (0.45mm); LazWell 96-well polypropylene plate cavities; Infrared (IR) laser diode (980 nm. 20 W. continuous).

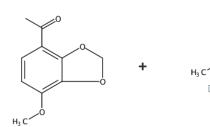
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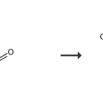
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Overview

Steps/Stages

1.1 R:Na_3HPO_4, R:mCPBA, S:CH_2Cl_2, cooled; 1 h, rt 1.2 R:KOH, S:MeOH, 2 h, rt 1.3 R:HCl, S:H_3O, acidify 2.1 R:POCl_3, S:DMF, 15 min, 5°C; 5°C \rightarrow rt; 20 min, rt 2.2 rt; rt \rightarrow 75°C; 2 h, 75°C; 75°C \rightarrow 0°C 2.3 R:H_2O, 5°C

Notes

1) Baeyer-Villiger oxidation (stage 1), 2) regioselective, Vilsmeier reaction, Reactants: 2, Reagents: 6, Solvents: 4, Steps: 2, Stages: 6, Most stages in any one step: 3

References

Total Synthesis of Bulbophylol-B Q Quick View Of Other Sources By Lin, Jinshun et al

From Journal of Natural Products, 71(11), 1938-1941; 2008

Experimental Procedure

PRODUCTS

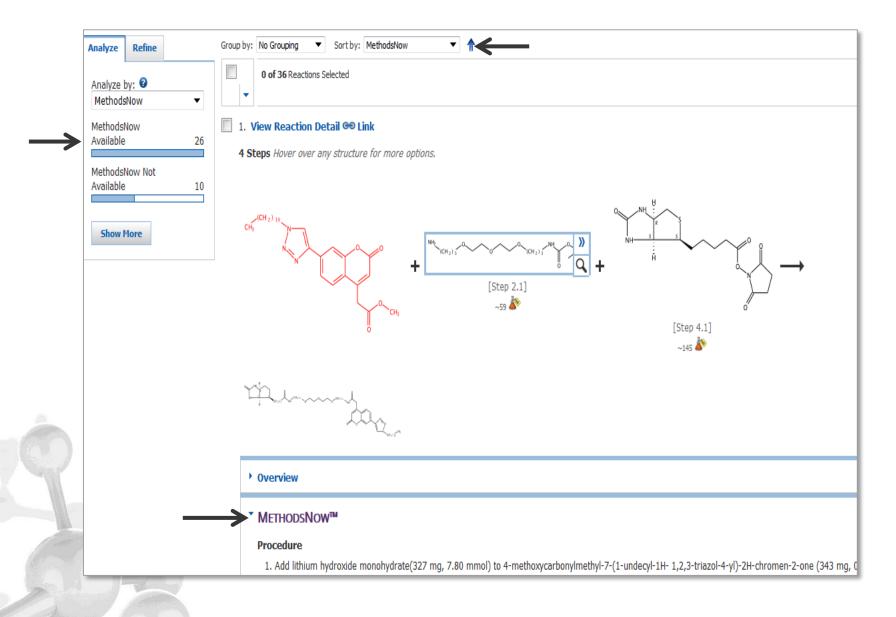
Step 1

It is our most popular feature, but you've told us we can do more 4-Methoxy-2,3-methylenedioxyphenyl Acetate (8). To a suspension of 7 (5.0 g, 25.5 mmol) and anhydrous Na_HPO₄ (4.7 g, 33.2 mmol) in CH₂Cl₂ (50 mL) was added *m*-CPBA (85%, 23.4 g, 127.5 mmol), in portions and in an ice-water bath, and the mixture was stirred at room temperature for 1 h. The resulting mixture was refluxed overnight, then cooled and filtered. The filter cake was washed with CH₂Cl₂ (3 × 30 mL). Evaporation of the solvent *in vacuo* gave a residue, which was directly used in the next reaction. 4-Methoxy-2,3-methylenedioxyphenol (9). KOH (1.4 g, 25 mmol) in H₂O (10 mL) was added to the crude 8 (5.5 g, 25.8 mmol) in MeOH (20 mL), and the mixture was stirred for 2 h at room temperature. The mixture was concritated to 10 mL and acdified with 2 M HCl (5 mL). The aqueous layer was extracted with CHCl₃ (3 × 20 mL), washed with H₂O (2 × 20 mL) and brine (20 mL), dried over anhydrous Na₂SO₄, and concentrated. The residue was purified by column chromatography (CC) (*r*-hexane/EtOAc, 3:1) to give 9 (4.38 g; two steps total yield 78%) as a white solid: 4-Methoxy-2,3-methylenedioxyphenol (9), yield 4.38 g, 78% mp 103-105 °C (lit.¹² mp 100-101 °C); ¹H NMR (300 MHz, CDCl₃) *δ* 6.43 (1H, s, H-6), 6.42 (1H, s, H-5), 5.99 (2H, s, OCH₂O), 4.48 (1H, s, OH), 3.85 (1H, s, OH₂).

Step 2

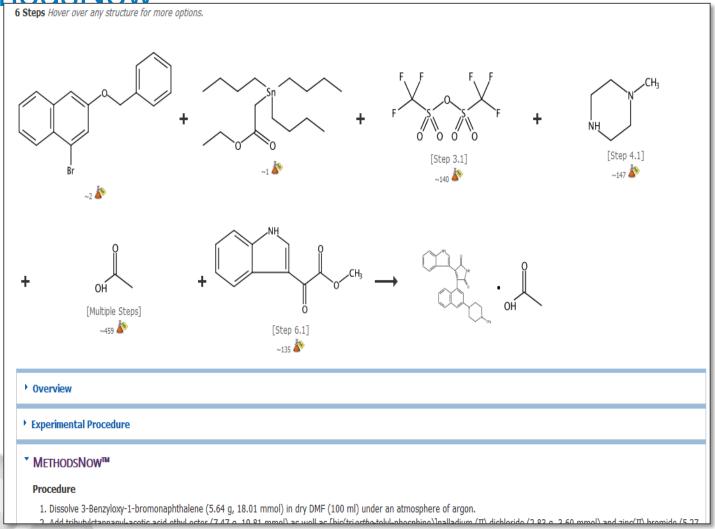
2-Hydroxy-3,4-methylenedioxy-5-methoxybenzaldehyde (10). POCl₃ (5.5 mL, 59.5 mmol) was added dropwise to DMF (10 mL, 129.4 mmol) over 15 min at 5 °C, then stirred at room temperature for 20 min followed by addition of 9 (2.5 g, 14.9 mmol) in portions. The mixture was slowly heated to 75 °C and then stirred at this temperature for 2 h. The resulting mixture was cooled to 5 °C and poured into H₂O (50 mL). After filtration, the filter cake was purified by CC (*n*-hexane/CHCl₃, 1:1) to give 10 (2.3 g, 79%) as a white solid: 2-Hydroxy-3,4-methylenedioxy-5-methoxybenzaldehyde (10), yield 2.3 g, 79% mp 181-182 °C (lit.¹² mp 179-180 °C); ¹H NMR (300 MHz, CDCl₃) *δ* 10.83 (1H, *CHO*), 9.73 (1H, s, O/H), 6.18 (2H, s, OC/H₀). 3.93 (3H, s, OC/H₀).

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By Jeon, Moon-Kook; Kang, Myoung-Ku; Park, Koon Ha From Tetrahedron, 68(30), 6038-6053; 2012 Published by Elsevier Ltd.		MethodsNow			
Reaction Steps 1 2 3 4 CH ₃ (CH ₂) 10 (CH ₂) 10 (CH ₃) 10 N 0 0 1		Procedure	 Add lithium hydroxide monohydrate(327 mg, 7.80 mmol) to 4-methoxycarbonylmethyl- 7-(1-undecyl-1H- 1,2,3-triazol-4-yl)-2H-chromen-2-one (343 mg, 0.780 mmol) in THF/water(25 mL/25 mL/25 mL) at room temperature. Stir the reaction mixture for 3 hours at room temperature. Adjust pH 3-4 to the reaction mixture by adding 1 N hydrochloric acid. Partition the reaction mixture between ethyl acetate and water. Extract the aqueous layer with ethyl acetate. Dry the combined organic layer over magnesium sulfate. 		
$ \begin{array}{c} & & \\ & & $		Scale	milligram		
		¹ H NMR	¹ H NMR (300 MHz, acetone- d_{s}): δ = 7.83 (s, 1H), 8.58 (s, 1H), 7.92 (d, J = 8.1 Hz, 1H), 7.84 (d, J = 8.1 Hz, 1H), 6.47 (s, 1H), 4.50 (t, J = 7.2 Hz, 2H), 3.99 (s, 2H), 2.00 (quintet, J = 7.2 Hz, 2H), 1.32-1.43 (m, 4H), 1.22-1.32 (m, 12H), 0.87 ppm (t, J = 6.8 Hz, 3H).		
Products	2H-1-Benzopyran-4-acetic acid, 2-oxo-7-(1-undecyl-1H-1,2,3-tria 1384966-77-1	¹³ C NMR	¹³ C NMR (125 MHz, DMF-d ₂ , 60 °C): δ = 161.0, 155.1, 154.2, 146.5, 136.0, 127.2, 123.7, 122.1, 120.4, 115.3, 113.5, 51.1, 32.8, 29.9, 27.3, 23.5, 18.7, 14.7 ppm (decarboxylation occurred to give the corresponding 4-methyl derivative).		
Reactants	2H-1-Benzopyran-4-acetic acid, 2-oxo-7-(1-undecyl-1H-1,2,3-tria 1384966-75-9	IR	IR (ATR, neat): v = 3423, 2922, 2851, 1702 (2CâO, overlapped), 1619, 1561, 1375, 1154, 936, 852, 809 cm ⁻¹ .		
Reagents	Hydrochloric acid, CAS RN: 7647-01-0 Lithium hydroxide, CAS RN: 1310-65-2	HRMS	HRMS (EI): m/z calculated for $C_{24}H_{31}N_3O_4$: 425.2315 [M ⁺]; found: 425.2315.		
Solvents	Water, CAS RN: 7732-18-5 Tetrahydrofuran, CAS RN: 109-99-9	Mass Spec	MS (ESI): m/z: 426 [M+H ⁺].		
		МР	235.5±0.8 °C.		
		CAS Method Number	3-352-CAS-78415		
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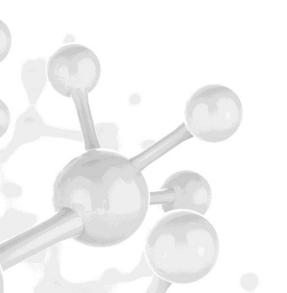
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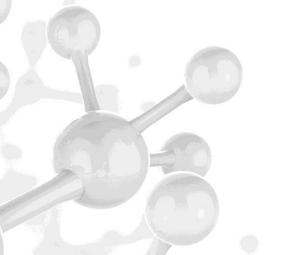
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Official Website:		
SciFinder Experience: (Y/N)		
The purpose of the trial		

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