

## SEARCH HISTORY

<b>Application Number</b>	PCT/US 18/48879
<b>Search Conducted By</b>	MAB
<b>Search Approved By</b>	EM

<b>US/IPC Classifications Searched</b>	IPC(8): A61K 45/00, A61K 31/00, C07K14/16 (2018.01) CPC: A61K31/513, G01N2333/16, G01N2333/155, C07D495/12
<b>Date Conducted</b>	6 November 2018

<b>Documentation Search</b>	IPC(8): A61K 45/00, A61K 31/00, C07K14/16 (2018.01) CPC: A61K 31/513, G01N 2333/16, G01N 2333/155, C07D 495/12
<b>Search Terms Used</b>	reactivte HIV, reactivate virus, treat HIV crotonylation-inducing agent, sodium crotonate, crotonyl-coenzyme A (crotonyl-CoA), ACSS2 activator, p300/CBP activator, histone deacetylase (HDAC) inhibitor, suberanilohydroxamic acid (SAHA), bis-hydroxamic acid (SBHA), trichostatin A (TSA), scriptaid, oxamflatin, givinostat
<b>Date Conducted</b>	6-8 November 2018 (6-8.11.2018)

<b>Electronic Database Searched</b>	PatBase
<b>Files Searched</b>	Full-text: AU BE BR CA CH CN DE DK EP ES FI FR GB IN JP KR SE TH TW US WO Bibliographic: (Europe) AT BA BE BG CH CS CY CZ DD DK EE ES FI GE GR HR HU IE IS IT LT LU LV MC MD MT NL NO PL PT RO RS SE SI SK SM TR UA YU (Asia) EA GC HK ID IL IN KZ MN MY PH RU SG SU TH TJ TW UZ VN (North America) CA CR CU DO GT HN MX NI PA SV TT (South America) AR BR CL CO EC PE UY (Australasia) AU NZ (Africa) AP DZ EG KE MA MW OA ZA ZM ZW
<b>Date Conducted</b>	6-8 November 2018 (6-8.11.2018)
<b>Search Logic:</b>	

- Search 1: IC=(A61K45/00 OR A61K31/00 OR C07K14/16 ) (Results 89959)
- Search 2: CPC=( A61K31/513 OR G01N2333/16 OR G01N2333/155 OR C07D495/12) (Results 2477)
- Search 3: 1 or 2 (Results 91692)
- Search 4: 3 and HIV (Results 15712)
- Search 5: 4 and latent HIV (Results 155)
- Search 6: 5 and (activat\* w5 HIV) (Results 119)
- Search 7: 6 and crotonyl\* (Results 0)
- Search 8: 6 and crotonylation (Results 0)
- Search 9: 6 and crotonyl-CoA (Results 0)
- Search 10: 6 and histone deacetylase (Results 40)
- Search 11: 10 and (inhibit\* w5 histone deacetylase) (Results 29)

<b>Electronic Database Searched</b>	Google
<b>Files Searched</b>	Scholar
<b>Date Conducted</b>	6-8 November 2018 (6-8.11.2018)
<b>Search Logic:</b>	
<p>6 results (0.06 sec) "latent HIV" and crotylation          About 64 results (0.23 seconds) HIV and crotylation          About 31 results (0.06 sec) crotylation and latent virus          1 result (0.06 sec) crotylation and "latent virus"          About 575 results (0.07 sec) virus and histone crotonylation          About 305 results (1.01 sec) HIV and histone crotonylation          About 292 results (0.16 sec) HIV and histone "crotonylation"          About 82 results (0.07 sec) lentivirus and histone "crotonylation"          About 24 results (0.07 sec) latent lentivirus and histone "crotonylation"          4 results (0.07 sec) "ACSS2" and "latent HIV"          4 results (0.05 sec) ACSS2 and "latent HIV"          About 62 results (0.07 sec) ACSS2 and latent HIV          About 61 results (0.16 sec) "ACSS2" and latent HIV          About 52 results (0.20 sec) "crotonyl-CoA" and latent HIV          About 85 results (0.12 seconds) activating latent HIV and crotonylation          About 340 results (0.13 sec) crotonylation inducing agent and virus</p>	

<b>Electronic Database Searched</b>	Google
<b>Files Searched</b>	Patents
<b>Date Conducted</b>	6-8 November 2018 (6-8.11.2018)

**Search Logic:**

About 0 results (0.27 seconds) "latent HIV" and crotonylation-inducing agent and HDAC inhibitor

About 0 results (0.22 seconds) "latent HIV" and crotonate and suberanolhydroxamic acid

About 0 results (0.20 seconds) "latent HIV" and crotylation

About 615 results (0.06 sec ) HIV and crotylation

9 results (0.26 seconds) HIV and crotylation and HDAC inhibitor

**Your search - HIV and crotylation and crotonyl-CoA - did not match any patent results.**

5 results (0.33 seconds) Crotonyl-CoA and "latent virus"

6 results (0.25 seconds) latent HIV and crotylation

About 48 results (0.26 seconds) latent HIV and "crotonyl-CoA"

About 47,400 results (0.39 seconds) acyl-CoA synthetase short-chain family member 2

9 results (0.10 sec) "latent HIV" and "crotonyl-CoA"

About 173 results (0.23 seconds) ACSS2 and HIV

About 0 results (0.25 seconds) ACSS2 and "latent HIV"

About 21,000 results (0.42 seconds) acyl-CoA synthetase short-chain family member 2 and HIV

About 83 results (0.30 seconds) "acyl-CoA synthetase short-chain family member 2" and HIV

**No results found for "acyl-CoA synthetase short-chain family member 2" and HIV and crotylation.**

About 252 results (0.54 seconds) "acetyl-CoA synthetase 2" and HIV

9 results (0.49 seconds) "acetyl-CoA synthetase 2" and latent HIV

About 24,800 results (0.51 seconds) activating latent HIV

About 4,820 results (0.52 seconds) activating latent HIV and HDAC inhibitor

3 results (0.22 seconds) activating latent HIV and crotonylation

About 50 results (0.37 seconds) crotonylation inducing agent and virus

Supplemental search - open google - performed: 17 November 2018 (17.11).

crotonylation-inducing agent  
crotonylation-inducing agent sodium crotonate  
crotonylation-inducing agent crotonyl-CoA treat HIV  
treat HIV sodium crotonate  
treat HIV sodium crotonate HDAC inhibitor  
treat viral infection sodium crotonate SAHA  
treat viral infection sodium crotonate trichostatin A  
reactivating latent HIV HDAC  
reactivate latent HIV HDAC crotonyl-CoA

About 136,000 results (0.62 seconds)  
About 27,500 results (0.61 seconds)  
About 34,000 results (0.69 seconds)  
About 7 results (0.41 seconds)  
About 9,770 results (0.56 seconds)  
About 31,000 results (0.70 seconds)  
About 9 results (0.69 seconds)  
About 112,000 results (0.47 seconds)  
About 1,360 results (0.56 seconds)