

Pharmaceutical Substances Version 3.8 – Update 15

The 15th update of Pharmaceutical Substances was released in May 2015. The version 3.8 features 32 new APIs and a total of 35,358 structures, 11,289 reactions and 2,606 active pharmaceutical ingredients.

New APIs	
Ado-Trastuzumab Emtansine	Nintedanib
Albiglutide	Olaparib
Apremilast	Olodaterol
Belinosta	Omacetaxine mepesuccinate
Cefepime	Palbociclib
Ceftibuten	Peramivir
Ceftobiprole medocaril	Pirfenidone
Ceftolozane	Pixantrone
Ceritinib	Roflumilast
Cobicistat	Romidepsin
Daclatasvir	Tasimelteon
Dimethyl fumarate	Tazobactam
Droxidopa	Tedizolid
Elvitegravir	Tigecycline
Idelalisib	Umeclidinium bromide
Ledipasvir	Vilanterol

Professor Bernhard Kutscher about the new version: “This spring release includes a lot of first-in-class drug products that have innovative mechanisms of action as well as anticipated blockbuster potential. Breakthrough therapy designation was received by the two new APIs Nintedanib and Pirfenidone against the challenging indication Idiopathic Pulmonary Fibrosis (IPF) for example. Peramivir is the first injectable neuraminidase inhibitor against Influenza”.

Pharmaceutical Substances Version 3.7 – Update 14

The 14th update of Pharmaceutical Substances was released in November 2014. The version 3.7 features 25 new active pharmaceutical ingredients and 5 updated APIs.

New APIs	
Edoxaban	Lixisenatide
Vortioxetine	Sofosbuvir
Tafamidis/Tafamidis Meglumine	Teduglutide
Eslicarbazepine	Simeprevir
Afatinib	Perampanel
Dabrafenib Mesylate	Teneligliptin
Ibrutinib	Phenylephrine

Macitentan	Treosulfan
Pomalidomide	Canagliflozin
Trametinib	Eldecacitol
Vinflunine	Fidaxomycin
Dolutegravir	Glatiramer Acetate
Levomilnacipran	

Updated APIs

Alfacalcidol	Colecalciferol
Calcifediol	Ergocalciferol
Calcitriol	

„The new release contains some of the most innovative new chemical entities that were approved and launched on the pharmaceutical markets recently“, says Professor Axel Kleemann.

Pharmaceutical Substances Version 3.6 – Update 13

The 13th update to Pharmaceutical Substances was released on April 23, 2014. The release features 30 new active pharmaceutical ingredients:

New APIs

Abiraterone	Linaclotide
Apixaban	Linagliptin
Asenapine	Pasireotide
Axitinib	Ponatinib
Azilsartan Medoxomil	Regorafenib
Boceprevir	Rilpivirine
Bosutinib	Ruxolitinib
Cabozantinib	Telaprevir
Carfilzomib	Teriflunomide
Crizotinib	Ticagrelor
Dalfampridine	Tofacitinib
Enzalutamide	Vandetanib
Gabapentin Encarbil	Vemurafenib
Indacaterol	Vilazodone
Ivacaftor	Vismodegib

With this release Pharmaceutical Substances contains, 2,549 APIs, 29,435 structures and 10,802 reactions.

Pharmaceutical Substances Version 3.5 – Update 12

The 12th update of Pharmaceutical Substances was released on June 30th, 2011. The version 3.5 features 8 new active pharmaceutical ingredients and 1 updated synthesis.

New APIs	
Alogliptin	Prasugrel
Besifloxacin	Retigabine
Eltrombopag	Rufinamide
Eribulin Mesylate	Sevelamer

Updated APIs	
Eplerenone	

Pharmaceutical Substances Version 3.4 – Update 11

The 11th update of Pharmaceutical Substances was released on December 20th, 2010. The version 3.4 features 16 new active pharmaceutical ingredients and 47 updated syntheses.

New APIs	
Agomelatine	Prasugrel
Cabazitaxel	Retigabine
Daptomycin	Rufinamide
Doripenem	Sevelamer
Fingolimod	Silodosin
Gemifloxacin	Sitaxentan
Mifamurtide	Sugammadex Sodium
Pazopanib	Tafluprost

Updated APIs	
Aliskiren	Letrozole
5-Aminolevulinic acid	Memantine
Anastrozole	Mercaptopurine
Arsenic trioxide	Methotrexate
Bleomycin	Mitomycin
Carboquone	Mitoxantrone
Cladribine	Nelarabine
Clofarabine	Nilotinib

Cytarabine	Oseltamivir
Dasatinib	Oxaliplatin
Daunorubicin	Paclitaxel
Docetaxel	Pemetrexed
Doxifluridine	Pregabalin
Drospirenone	Raltitrexed
Estramustine phosphate	Sorafenib
Etoposide	Sunitinib malate
Fludarabine phosphate	Temoporfin
Fluorouracil	Temozolomide
Flupirtine	Trabectedin
Formestane	Tramadol
Idarubicin	Valrubicin
Imatinib	Vincristine
Irinotecan	Vinorelbine
Ixabepilone	

Pharmaceutical Substances Version 3.3 – Update 10

The 10th update of Pharmaceutical Substances was released on January 25, 2010, featuring 20 new active pharmaceutical ingredients and 3 updated syntheses.

New APIs

Arformoterol	Imidafenacin
Cefpodoxime Proxetil	Lacosamide
Dapoxetine	Liraglutide
Darunavir	Mitiglinide
Decitabine	Retapamulin
Degarelix	Rupatadine
Desvenlafaxine	Talaporfin
Dronedarone	Tapentadol
Histrelin	Telcagepant
Icatibant	Tolvaptan

Updated APIs

Azelastine	Teriparatide
Dexrazoxane	

Pharmaceutical Substances Version 3.2 – Update 9

The 9th update of Pharmaceutical Substances was released on May 12, 2009, featuring 15 new active pharmaceutical ingredients and 1 updated synthesis.

New APIs

Acitretin	Mivacurium chloride
Alvimopan	Rifabutin
Artemether	Rotigotine
Blonanserin	Stiripentol
Clofarabine	Teriparatide
Dienogest	Trabectedin
Lubiprostone	Ziconotide
Methylnaltrexone Bromide	

Updated APIs

Dexrazoxane	
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Pharmaceutical Substances Version 3.1 – Update 8

The 8th update of Pharmaceutical Substances was released on October 28, 2008, featuring 51 new active pharmaceutical ingredients and 16 updated syntheses.

New APIs

Albendazole	Glutathione
5-Aminolevulinic acid	Gonadorelin
Ambrisentan	Iobitridol
Atovaquone	Iodixanol
Bivalirudin	Iomeprol
Calcitonin	Iopromide
Carnidazole	Ixabepilone
Ciclesonide	Lanreotide
Cinacalcet hydrochloride	Lapatinib
Coumarin	Lisuride
Cytidine	Maraviroc
Dabigatran etexilate	Nadifloxacin
Dalteparin sodium	Nilotinib
Danaparoid sodium	Octreotide
Dasatinib	Paliperidone
Elcatonin	Podophyllotoxin
Etravirine	Posaconazole

Gadobenic acid	Raltegravir potassium
Gadobutrol	Rasagiline
Gadodiamide	Rivaroxaban
Gadopentetic acid	Sirolimus
Gadoteric acid	Somatostatin
Gadoteridol	Taurolidine
Gadoversetamide	

Updated APIs

Articaine	Levocarnitine
Bupropion	Loxoprofen
Clorazepate dipotassium	Molsidomine
Dihydralazine	Nebivolol
Doxorubicin	Orlistat
Epirubicin	Oseltamivir
Hydroxyprogesterone caproate	Pentaerithrityl tetranitrate
Lamotrigine	Pravastatin

Pharmaceutical Substances Version 3.0 – Update 7

The 7th update of Pharmaceutical Substances was released on June 15, 2007, featuring important software amendments, 16 new active pharmaceutical ingredients and 68 updated syntheses.

New APIs

Aliskiren	Enoxaparin sodium
Argatroban	Exenatide
Bendamustine hydrochloride	Gemfibrozil
Colesevelam hydrochloride	Saxagliptin
Colestipol hydrochloride	Sitagliptin phosphate
Deferasirox	Telbivudine
Delapril	Vildagliptin
Desflurane	Vorinostat

Updated APIs

Acebutolol	Indoramin
Acenocoumarol	Isoflurane
Ajmaline	Isradipine
Amiodarone	Ketoconazole
Atenolol	Lacidipine

Barnidipine	Lercanidipine hydrochloride
Befunolol	Levobunolol
Bendroflumethiazide	Losartan potassium
Benidipine	Manidipine
Betaxolol	Mepindolol
Bezafibrate	Mesna
Bisoprolol	Metipranolol
Bortezomib	Metoprolol
Brimonidine	Moxonidine
Cilnidipine	Nadolol
Ciprofibrate	Nebivolol
Clofibrate	Nicotinic acid
Cloпамide	Olanzapine
Clopidogrel hydrogensulfate	Olmesartan medoxomil
Colestyramine	Oseltamivir
Dihydralazine	Oxcarbazepine
Dofetilide	Pantoprazole sodium
Dorzolamide	Penbutolol
Efonidipine hydrochloride ethanol	Pentaerithryl tetranitrate
Enalapril	Piretanide
Etofibrate	Prazosin
Ezetimibe	Rosuvastatin calcium
Fenofibrate	Sevoflurane
Flecainide	Spirolactone
Fluvastatin sodium	Tamoxifen
Fondaparinux sodium	Tamsulosin hydrochloride
Gallopamil	Tiocloमारol
Gemcitabine	Tirofiban hydrochloride
Guanfacine	Torasemide

Pharmaceutical Substances – Update 6

The Pharmaceutical Substances version 2.4 was released on August 22, 2006, featuring 10 new active pharmaceutical ingredients and 50 updated syntheses.

New APIs	
Darifenacin	Nelarabine
Eszopiclone	Pemetrexed
Hyaluronic acid	Ranolazine
Ivabradine	Sunitinib malate
Lenalidomide	Varenicline

Updated APIs	
Abarelix	Aprepitant
Aripiprazole	Atazanavir sulfate
Atorvastatin calcium	Beclometasone
Betamethasone	Betamethasone acetate
Bortezomib	Brivudine
Cafaminol	Cefditoren pivoxil
Ciprofloxacin	Citalopram
Duloxetine oxalate	Efavirenz
Emtricitabine	Enfuvirtide
Escitalopram oxalate	Fluticasone propionate
Frovatriptan	Gefitinib
Imatinib	Imipenem
Isotretinoin	Lafutidine
Lumiracoxib	(-)-Menthol
Micafungin	Minoxidil
Olanzapine	Olmесartan medoxomil
Oseltamivir	Oxcarbazepine
Palonosetron	Pazufloxacin
Pitavastatin	Pregabalin
Propofol	Rifapentine
Rosuvastatin calcium	Sertraline
Sevoflurane	Sorafenib
Terbinafine	Ticlopidine
Tiotropium bromide	Ubidecarenone

Pharmaceutical Substances – Update 5

The Pharmaceutical Substances version 2.3 was released on August 22, 2006, featuring a new built-in structure editor and 8 new active pharmaceutical ingredients.

New APIs	
Entecavir	Ramelteon
Garenoxacin	Solifenacin
Indisetrone	Sorafenib
Pregabalin	Tipranavir

Pharmaceutical Substances – Update 4

The 4th update of Pharmaceutical Substances was released on July 28, 2005, featuring 7 new active pharmaceutical ingredients and 1 updated synthesis.

New APIs	
Bortezomib	Lumiracoxib
Duloxetine oxalate	Rimonabant
Erlotinib hydrochloride	Ximelagatran
Fosamprenavir	

Updated API	
Azacitidine	

Pharmaceutical Substances – Update 3

The 4th update of Pharmaceutical Substances was released on November 29, 2004. The release included 16 new active pharmaceutical ingredients, in addition to extensive revisions of existing entries such as a new synthetic process for the API Abarelix.

New APIs	
Amrubicin	Fosfluconazole
Atazanavir sulfate	Micafungin
Azelnidipine	Norelgestromin
Brivudine	Palonosetron

Clarithromycin	Pazufloxacin
Emtricitabine	Pitavastatin
Enfuvirtide	Prulifloxacin
Everolimus	Telithromycin

Updated API

Abarelix	
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Pharmaceutical Substances – Update 2

The 2nd update of Pharmaceutical Substances was released on May 15, 2004, featuring 38 new active pharmaceutical ingredients.

New APIs

Aprepitant	Nafarelin acetate
Arsenic trioxide	Neridronic acid
Artemotil	Nitazoxanide
Bimatoprost	Nitisinone
Colforsin dapropate	Olopatadine
Dexmedetomidine	Parecoxib sodium
Drospirenone	Pimecrolimus
Escitalopram oxalate	Quinupristin
Etoricoxib	Rimexolone
Exemestane	Rosuvastatin calcium
Ezetimibe	Sarpogrelate
Frovatriptan	Sivelestat
Fudosteine	Tadalafil
Fulvestrant	Temoporfin
Gefitinib	Tiotropium bromide
Lafutidine	Travoprost
Landiolol	Treprostinil
Levocetirizine	Vardenafil hydrochloride
Levosimendan	Verteporfin

Pharmaceutical Substances – Update 1

The 1st update of Pharmaceutical Substances was released on November 15, 2003, featuring 47 new active pharmaceutical ingredients.

New APIs	
Adefovir dipivoxil	Goserelin acetate
Alitretinoin	Imatinib
Almotriptan	Leuprorelin acetate
Alosetron hydrochloride	Levetiracetam
Amisulpride	Levobupivacaine hydrochloride
Aripiprazole	Levosalbutamol
Atosiban	Linezolid
Bepotastine besilate	Liranaftate
Bexarotene	Lopinavir
Bosentan	Maxacalcitol
Caspofungin acetate	Nifekalant hydrochloride
Cevimeline hydrochloride	Olmесartan medoxomil
Dalfopristin	Perospirone
Dexmethylphenidate hydrochloride	Taltirelin
Doxercalciferol	Tegaserod maleate
Dutasteride	Temozolomide
Eletriptan	Tenofovir disoproxil fumarate
Eplerenone	Tomoxetine hydrochloride
Ertapenem	Valdecoxib
Esomeprazole	Valganciclovir hydrochloride
Fondaparinux sodium	Valrubicin
Galantamine	Voriconazole
Ganirelix acetate	Zoledronic acid
Gatifloxacin	