

Organic Synthesis of Antivirals

Focus on Remdesivir

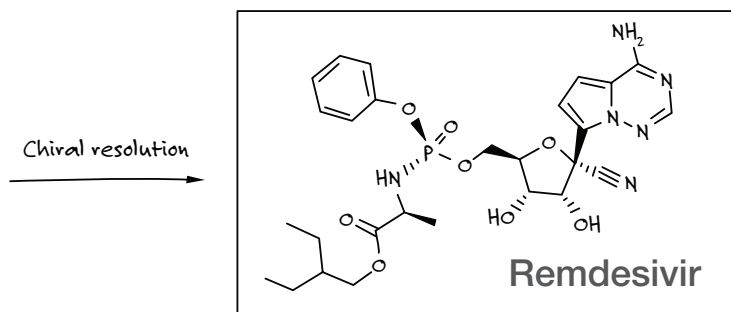
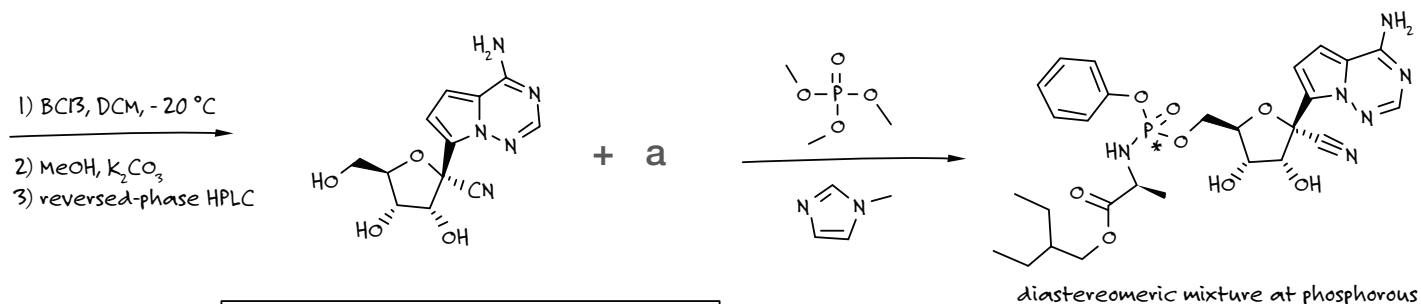
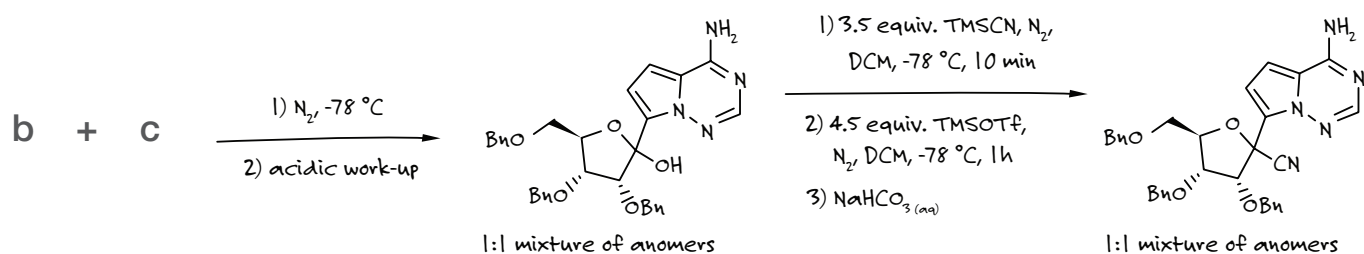
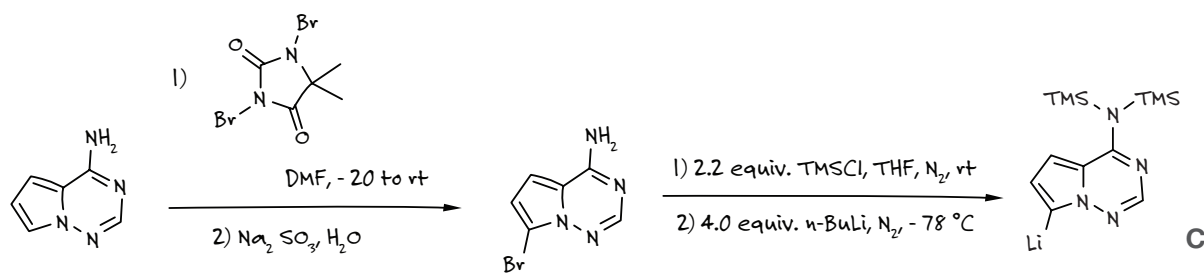
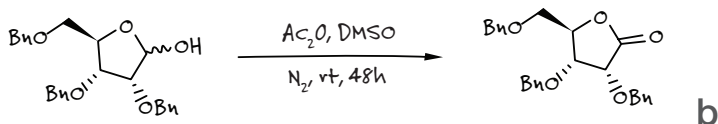
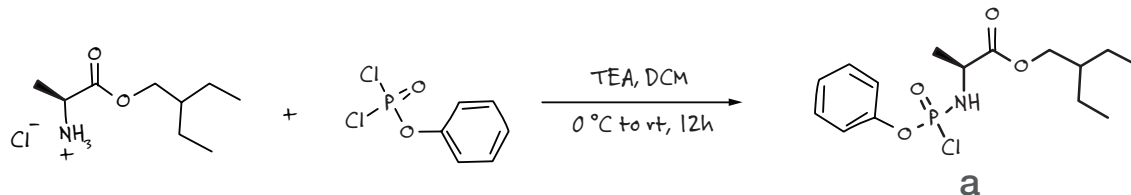
抗ウイルス薬の有機合成
レムデシビル特集

Alfa Aesar輸入元・日本代理店 **ヒドラス化学株式会社**
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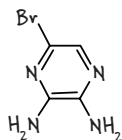
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Research into novel antivirals is very complex. Most compounds with antiviral activity share interesting structural features, with heterocycle scaffolds, complex multifunctional nature and often several chiral centres.

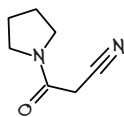
Remdesivir has emerged as a particularly promising therapeutic agent to fight severe acute respiratory syndrome-related coronavirus (SARS-CoV) infections.



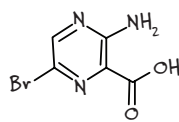
Key building blocks for Remdesivir, Acalabrutinib and other antivirals



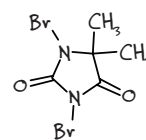
2,3-Diamino-5-bromopyrazine
Stock no: MAY00135
CAS: 89123-58-0



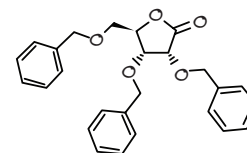
1-(Cyanoacetyl)pyrrolidine, 98+%
Stock no: 14227-95-3
CAS: A12523



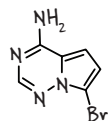
3-Amino-6-bromopyrazine-2-carboxylic acid, 97%
Stock no: 486424-37-7
CAS: 45742



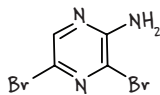
1,3-Dibromo-5,5-dimethylhydantoin, 98%
Stock no: 77-48-5
CAS: A15510



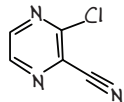
2,3,5-Tri-O-benzyl-D-ribofuranose-1,4-lactone
Stock no 46870 CAS 937046-98-5



7-Bromopyrrolo[2,1-f][1,2,4]triazin-4-amine
Stock no 46870 CAS 937046-98-5



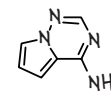
2-Amino-3,5-dibromopyrazine, 97%
Stock no: 24241-18-7
CAS: 39837



3-Chloropyrazine-2-carbonitrile
Stock no: 55557-52-3
CAS: KM04911



(S)-2-Ethylbutyl 2-aminopropanoate hydrochloride
Stock no: 946511-97-3 CAS: 46901



Pyrrolo[1,2-f][1,2,4]triazin-4-amine
Stock no 46899 CAS 159326-68-8

From reaction planning to product purification and characterization, we have everything you need for successful organic synthesis results.

The comprehensive Acros Organics and Alfa Aesar product portfolios include building blocks, reagents, chemical essentials such as buffers, solvents, acids and bases for synthesising Remdesivir and many other complex molecules. Extra Dry grades are offered in the innovative AcroSeal packaging.

When you are ready to accelerate your synthetic organic chemistry, our high quality products are just what you need in your lab.

Building Blocks

Stock No.	Description	CAS No	Sizes	Brand
46901	(S)-2-Ethylbutyl 2-aminopropanoate hydrochloride	946511-97-3	1g, 5g	Acros Organics
A15510	1,3-Dibromo-5,5-dimethylhydantoin, 98%	77-48-5	100g, 500g	Alfa Aesar
A16001	1,3-Dimethyl-2-imidazolidinone, 98%	80-73-9	100g, 500g	Alfa Aesar
A12575	1-Methylimidazole, 99%	616-47-7	100g, 500g, 2kg	Alfa Aesar
H33605	2,3,5-Tri-O-benzyl-D-ribofuranose, 98%	54623-25-5	1g, 5g	Alfa Aesar
46864	2,3,5-Tri-O-benzyl-D-ribofuranose-1,4-lactone	55094-52-5	1g, 5g	Acros Organics
46900	2,3-Dicyanopyrazine	13481-25-9	5g, 25g	Acros Organics
KM04911	3-Chloropyrazine-2-carbonitrile, 97%	55557-52-3	1g, 25g	Maybridge
H26825	4-Carboxybenzeneboronic acid pinacol ester, 97%	180516-87-4	1g, 5g	Alfa Aesar
B20954	4-Carboxyphenylboronic acid, 97%	14047-29-1	1g, 5g, 25g	Alfa Aesar
46870	7-Bromopyrrolo[2,1-f][1,2,4]triazin-4-amine	937046-98-5	1g, 5g	Acros Organics
A11271	L-Alanine ethyl ester hydrochloride, 98%	1115-59-9	5g, 25g	Alfa Aesar
30836	L-Alanine methyl ester hydrochloride, 99%	2491-20-5	5g, 25g	Acros Organics
B21672	N-Benzyloxycarbonyl-L-proline, 98+%	1148-11-4	5g, 50g, 250g	Alfa Aesar
46899	Pyrrolo[1,2-f][1,2,4]triazin-4-amine	159326-68-8	1g, 5g	Acros Organics

Essentials

Stock No.	Description	CAS No	Sizes	Brand
A15542	2-Butynoic acid, 98%	590-93-2	5g, 25g	Alfa Aesar
22214	Acetic acid, 99.8%, for analysis	64-19-7	250mL, 1L, 2.5L	Acros Organics
36423	Acetonitrile, ACS, 99.5+%	75-05-8	500ml, 1L, 4L, 4 x 1L	Alfa Aesar
13371	Ammonia, ca. 7N solution in methanol, AcroSeal®	7664-41-7	100ml, 800ml	Acros Organics
11346	Dichloromethane, 99.8+%, for analysis, stabilized with amylene	75-09-2	1L, 2.5L, 5L, 10L, 25L	Acros Organics
32685	Dichloromethane, 99.9%, Extra Dry, stabilized, AcroSeal®	75-09-2	100ml, 1L, 2.5L	Acros Organics
23211	Ethyl acetate, 99.5%, for analysis	141-78-6	1L, 2.5L, 5L, 25L	Acros Organics

(Continued)

Essentials (continued)

Stock No.	Description	CAS No	Sizes	Brand
12463	Hydrochloric acid, for analysis, fuming, 37% solution in water	7647-01-0	500ml, 1L, 2.5L, 10L	Acros Organics
12318	Hydrogen bromide, pure, 33 wt% solution in glacial acetic acid	37348-16-6	500ml, 1L, 2.5L	Acros Organics
42383	Isopropanol, 99.6%, ACS reagent	67-63-0	500ml, 1L, 2.5L, 25L	Acros Organics
17684	Methanol, 99.9%, for analysis	67-56-1	500ml, 1L, 2.5L, 10L, 25L	Acros Organics
29552	Methyl sulfoxide, 99.8+%, extra pure	67-68-5	250ml, 1L, 2.5L, 25L	Acros Organics
21058	N,N-Dimethylformamide, 99.5%, for analysis	68-12-2	500ml, 1L, 2.5L, 10L, 25L	Acros Organics
32687	N,N-Dimethylformamide, 99.8%, Extra Dry, AcroSeal®	68-12-2	100ml, 1L, 2.5L	Acros Organics
19804	Potassium carbonate, 99+%, for analysis, anhydrous	584-08-7	1kg, 5kg, 25kg	Acros Organics
A12535	Trimethylsilyl trifluoromethanesulfonate, 99%	27607-77-8	10g, 50g, 250g	Alfa Aesar

Reagents

Stock No.	Description	CAS No	Sizes	Brand
10454	2-Aminopyridine	504-29-0	100g, 500g, 2.5kg	Acros Organics
B21026	2-Ethyl-1-butanol, 98%	97-95-0	500ml, 2500ml	Alfa Aesar
L04295	Acetic anhydride, 99+%, for analysis	108-24-7	250g, 1000g, 2500g	Alfa Aesar
H32751	Boron trichloride, 1M solution in methylene chloride, AcroSeal®	10294-34-5	100ml, 500ml	Alfa Aesar
A13651	Chlorotrimethylsilane, 98%	75-77-4	25ml, 100ml, 500ml	Alfa Aesar
A11716	Diethylamine, 99.5%, for analysis	109-89-7	100ml, 500ml, 2500ml	Alfa Aesar
36531	HATU, 97%	148893-10-1	5g, 25g	Acros Organics
A15922	N-Bromosuccinimide, 99%	128-08-5	250g, 1000g, 5000g	Alfa Aesar
21335	n-Butyllithium, 2.5M solution in hexanes, AcroSeal®	109-72-8	100ml, 800ml	Acros Organics
A18012	Oxalyl chloride, 98%	79-37-8	50g, 100g, 250g, 1000g	Alfa Aesar
A10479	Phenyl dichlorophosphate, 99%	770-12-7	25g, 100g, 500g	Alfa Aesar
10525	Phosphorus oxychloride, 99%	10025-87-3	250g, 1kg	Alfa Aesar
21951	Triethylamine, 99.7%, extra pure	121-44-8	5g, 50g, 1kg, 2.5kg, 10kg	Acros Organics
A10595	Trimethyl phosphate, 99%	512-56-1	500g, 2500g	Alfa Aesar
A19598	Trimethylsilyl cyanide, 98%	7677-24-9	5g, 25g, 100g	Alfa Aesar
42206	Trimethylsilyl cyanide, 98%, AcroSeal®	7677-24-9	100ml	Acros Organics

Catalysts

Stock No.	Description	CAS No	Sizes	Brand
10491	Bis(triphenylphosphine)palladium(II) chloride, 98%	13965-03-2	1g, 5g, 25g	Alfa Aesar
46503	Dichloro[1,1'-bis(diphenylphosphino)ferrocene]palladium(II), Pd 13.0-14.5%	72287-26-4	1g	Alfa Aesar
39592	Raney-Nickel, activated catalyst, 50% slurry in water	7440-02-0	100g, 500g	Acros Organics

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