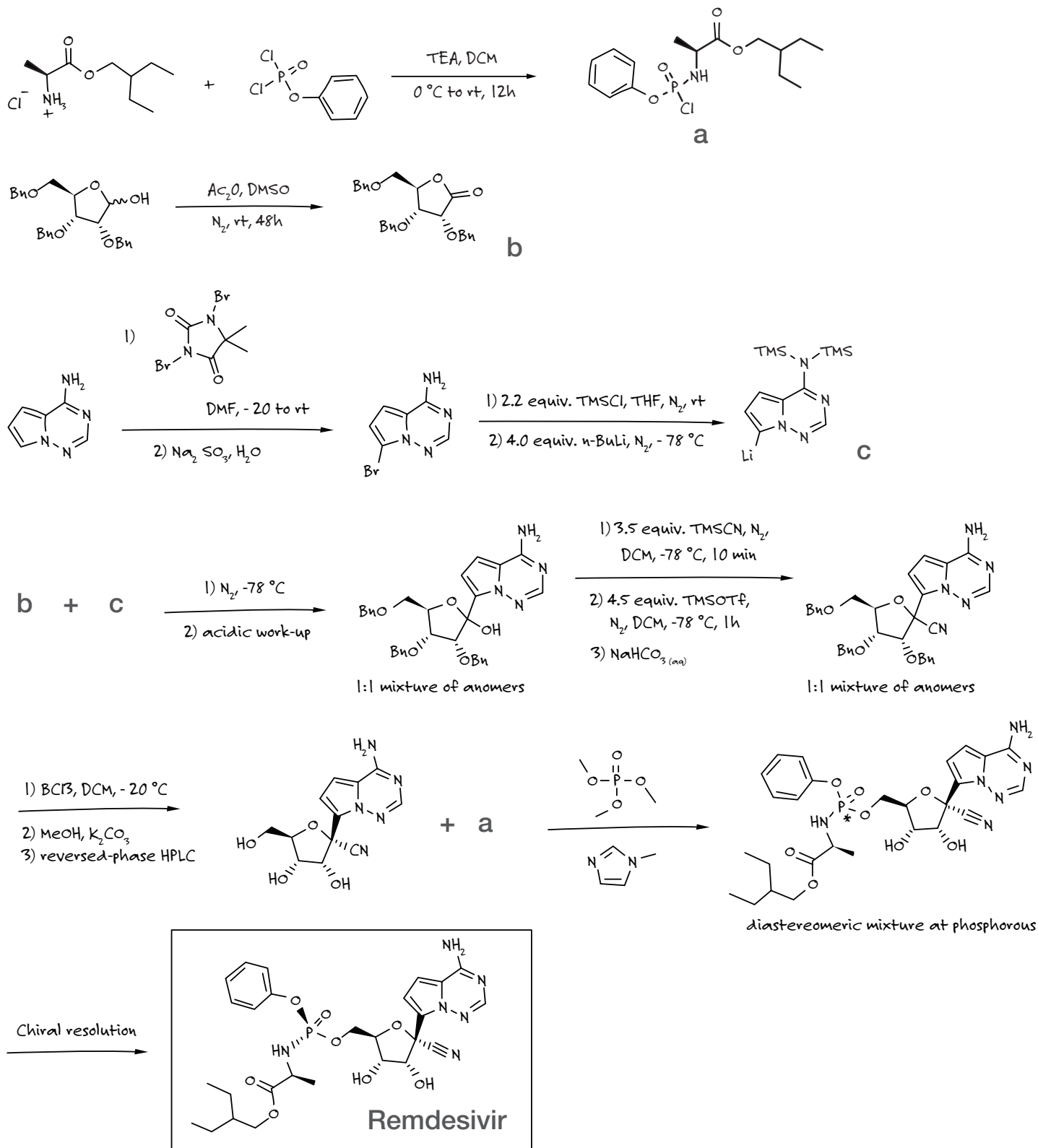


# Organic Synthesis of Antivirals

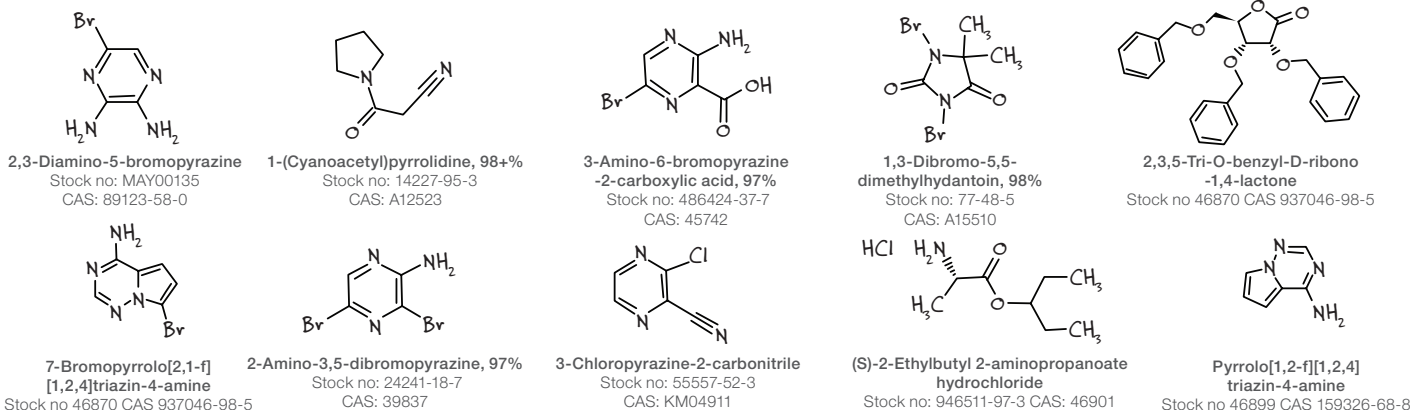
## Focus on Remdesivir

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



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

IBS No.	Description	CAS No	Sizes	Brand
11402917	1,3-Dibromo-5,5-dimethylhydantoin, 98%	77-48-5	100g, 500g	Alfa Aesar
11408606	1,3-Dimethyl-2-imidazolidinone, 98%	80-73-9	100g, 500g	Alfa Aesar
11404284	1-Methylimidazole, 99%	616-47-7	100g, 500g, 2kg	Alfa Aesar
15406457	2,3,5-Tri-O-benzyl-D-ribofuranose, 98%	54623-25-5	1g, 5g	Alfa Aesar
10082444	3-Chloropyrazine-2-carbonitrile, 97%	55557-52-3	1g, 25g	Maybridge
11386959	4-Carboxybenzeneboronic acid pinacol ester, 97%	180516-87-4	1g, 5g	Alfa Aesar
11410017	4-Carboxyphenylboronic acid, 97%	14047-29-1	1g, 5g, 25g	Alfa Aesar
11483624	L-Alanine ethyl ester hydrochloride, 98%	1115-59-9	5g, 25g	Alfa Aesar
10100462	L-Alanine methyl ester hydrochloride, 99%	2491-20-5	5g, 25g	Acros Organics
11319729	N-Benzyloxycarbonyl-L-proline, 98+%	1148-11-4	5g, 50g, 250g	Alfa Aesar

## Essentials

IBS No.	Description	CAS No	Sizes	Brand
11412977	2-Butynoic acid, 98%	590-93-2	5g, 25g	Alfa Aesar
10492411	Acetic acid, 99.8%, for analysis	64-19-7	250mL, 1L, 2.5L	Acros Organics
11357888	Acetonitrile, ACS, 99.5+%	75-05-8	500ml, 1L, 4L, 4x1L	Alfa Aesar
10001310	Ammonia, ca. 7N solution in methanol, AcroSeal®	7664-41-7	100ml, 800ml	Acros Organics
10396410	Dichloromethane, 99.8+%, for analysis, stabilized with amylene	75-09-2	1L, 2.5L, 5L, 10L, 25L	Acros Organics
10429252	Dichloromethane, 99.9%, Extra Dry, stabilized, AcroSeal®	75-09-2	100ml, 1L, 2.5L	Acros Organics
10573591	Ethyl acetate, 99.5%, for analysis	141-78-6	1L, 2.5L, 5L, 25L	Acros Organics
10794821	Hydrochloric acid, for analysis, fuming, 37% solution in water	7647-01-0	500ml, 1L, 2.5L, 10L	Acros Organics
11334996	Hydrogen bromide, pure, 33 wt% solution in glacial acetic acid	37348-16-6	500ml, 1L, 2.5L	Acros Organics
10792022	Isopropanol, 99.6%, ACS reagent	67-63-0	500ml, 1L, 2.5L, 25L	Acros Organics
10317360	Methanol, 99.9%, for analysis	67-56-1	500ml, 1L, 2.5L, 10L, 25L	Acros Organics

## Essentials (continued)

IBS No.	Description	CAS No	Sizes	Brand
10562841	Methyl sulfoxide, 99.8+%, extra pure	67-68-5	250ml, 1L, 2.5L, 25L	Acros Organics
10370473	N,N-Dimethylformamide, 99.5%, for analysis	68-12-2	500ml, 1L, 2.5L, 10L, 25L	Acros Organics
10295761	N,N-Dimethylformamide, 99.8%, Extra Dry, AcroSeal®	68-12-2	100ml, 1L, 2.5L	Acros Organics
10674892	Potassium carbonate, 99+%, for analysis, anhydrous	584-08-7	1kg, 5kg, 25kg	Acros Organics
11404214	Trimethylsilyl trifluoromethanesulfonate, 99%	27607-77-8	10g, 50g, 250g	Alfa Aesar

## Reagents

IBS No.	Description	CAS No	Sizes	Brand
10519440	2-Aminopyridine	504-29-0	100g, 500g, 2.5kg	Acros Organics
11460107	2-Ethyl-1-butanol, 98%	97-95-0	500ml, 2500ml	Alfa Aesar
11376876	Acetic anhydride, 99+%, for analysis	108-24-7	250g, 1000g, 2500g	Alfa Aesar
15408195	Boron trichloride, 1M solution in methylene chloride, AcroSeal®	10294-34-5	100ml, 500ml	Alfa Aesar
11400244	Chlorotrimethylsilane, 98%	75-77-4	25ml, 100ml, 500ml	Alfa Aesar
11324499	Diethylamine, 99.5%, for analysis	109-89-7	100ml, 500ml, 2500ml	Alfa Aesar
13219522	HATU, 97%	148893-10-1	5g, 25g	Acros Organics
11478456	N-Bromosuccinimide, 99%	128-08-5	250g, 1000g, 5000g	Alfa Aesar
10030462	n-Butyllithium, 2.5M solution in hexanes, AcroSeal®	109-72-8	100ml, 800ml	Acros Organics
11478700	Oxalyl chloride, 98%	79-37-8	50g, 100g, 250g, 1000g	Alfa Aesar
11418723	Phenyl dichlorophosphate, 99%	770-12-7	25g, 100g, 500g	Alfa Aesar
15480987	Phosphorus oxychloride, 99%	10025-87-3	250g, 1kg	Alfa Aesar
10184473	Triethylamine, 99.7%, extra pure	121-44-8	5g, 50g, 1kg, 2.5kg, 10kg	Acros Organics
11483264	Trimethyl phosphate, 99%	512-56-1	500g, 2500g	Alfa Aesar
11494147	Trimethylsilyl cyanide, 98%	7677-24-9	5g, 25g, 100g	Alfa Aesar
11975871	Trimethylsilyl cyanide, 98%, AcroSeal®	7677-24-9	100ml	Acros Organics

## Catalysts

IBS No.	Description	CAS No	Sizes	Brand
11345988	Bis(triphenylphosphine)palladium(II) chloride, 98%	13965-03-2	1g, 5g, 25g	Alfa Aesar
15487225	Dichloro[1,1'-bis(diphenylphosphino)ferrocene] palladium(II), Pd 13.0-14.5%	72287-26-4	1g	Alfa Aesar
10243353	Raney®-Nickel, activated catalyst, 50% slurry in water	7440-02-0	100g, 500g	Acros Organics

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