

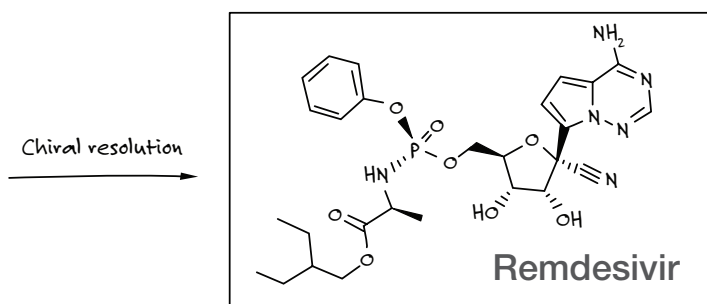
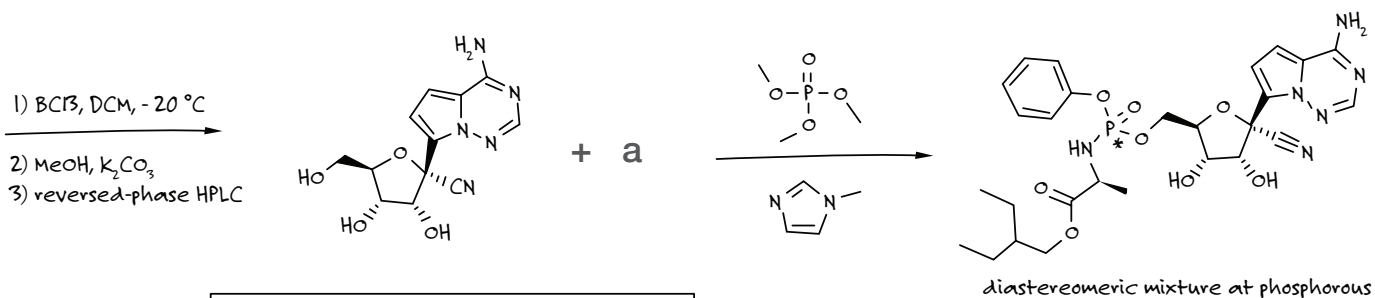
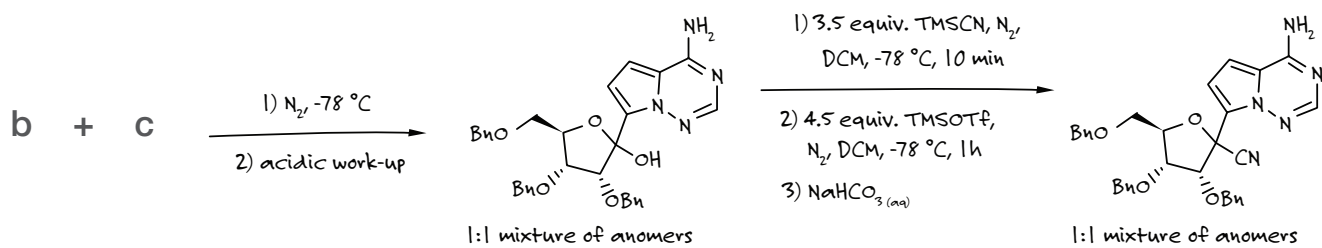
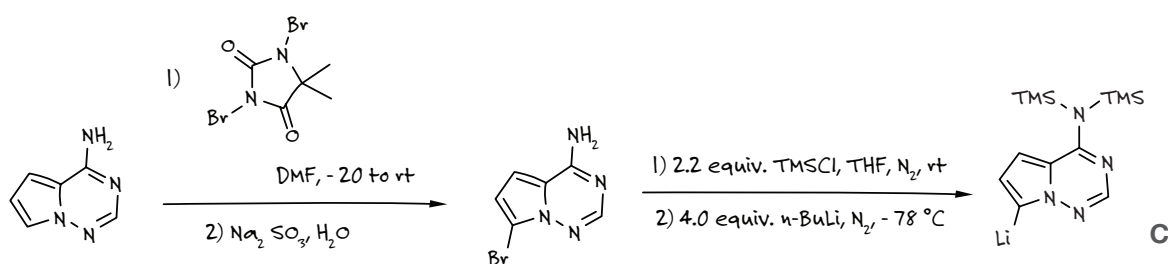
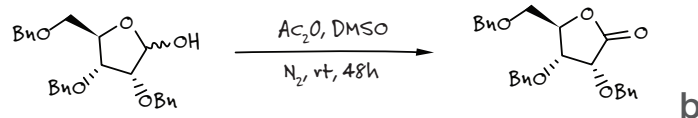
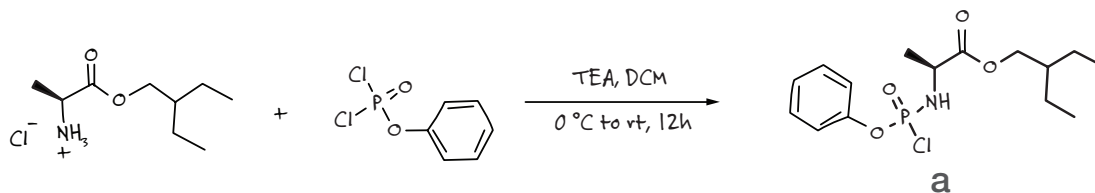
Chemicals

# Organic synthesis of antivirals

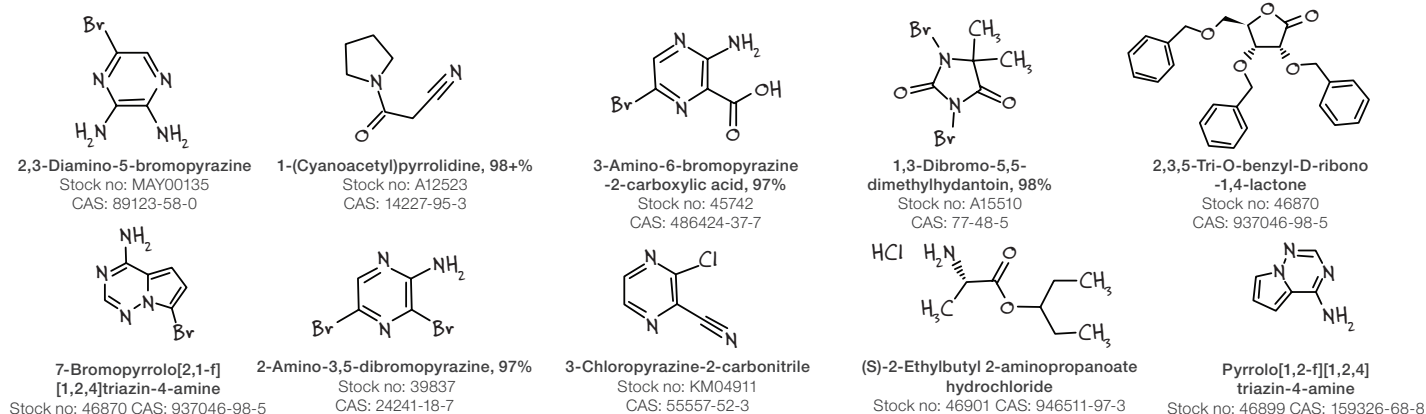
Focus on Remdesivir

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-2) 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 Thermo Scientific™ product portfolio includes 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
46901	(S)-2-Ethylbutyl 2-aminopropanoate hydrochloride	946511-97-3	1 g, 5 g
A15510	1,3-Dibromo-5,5-dimethylhydantoin, 98%	77-48-5	100 g, 500 g
A16001	1,3-Dimethyl-2-imidazolidinone, 98%	80-73-9	100 g, 500 g
A12575	1-Methylimidazole, 99%	616-47-7	100 g, 500 g, 2 kg
H33605	2,3,5-Tri-O-benzyl-D-ribofuranose, 98%	54623-25-5	1 g, 5 g
46864	2,3,5-Tri-O-benzyl-D-ribo-1,4-lactone	55094-52-5	1 g, 5 g
46900	2,3-Dicyanopyrazine	13481-25-9	5 g, 25 g
KM04911	3-Chloropyrazine-2-carbonitrile, 97%	55557-52-3	1 g, 25 g
H26825	4-Carboxybenzeneboronic acid pinacol ester, 97%	180516-87-4	1 g, 5 g
B20954	4-Carboxyphenylboronic acid, 97%	14047-29-1	1 g, 5 g, 25 g
46870	7-Bromopyrrolo[2,1-f][1,2,4]triazin-4-amine	937046-98-5	1 g, 5 g
A11271	L-Alanine ethyl ester hydrochloride, 98%	1115-59-9	5 g, 25 g
30836	L-Alanine methyl ester hydrochloride, 99%	2491-20-5	5 g, 25 g
B21672	N-Benzyloxycarbonyl-L-proline, 98+%	1148-11-4	5 g, 50 g, 250 g
46899	Pyrrolo[1,2-f][1,2,4]triazin-4-amine	159326-68-8	1 g, 5 g

## Essentials

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

## Essentials (continued)


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

## Reagents

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

## Catalysts

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

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