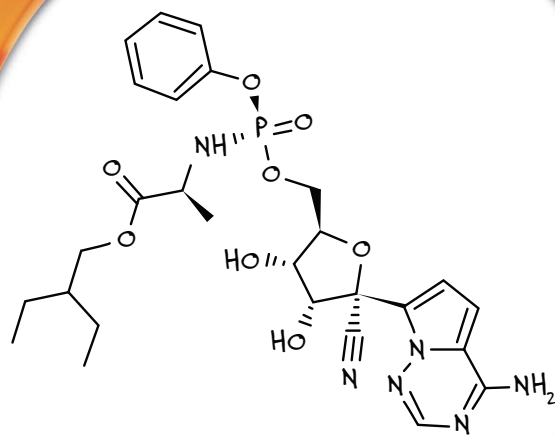


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Chemicals

Organic synthesis of antivirals

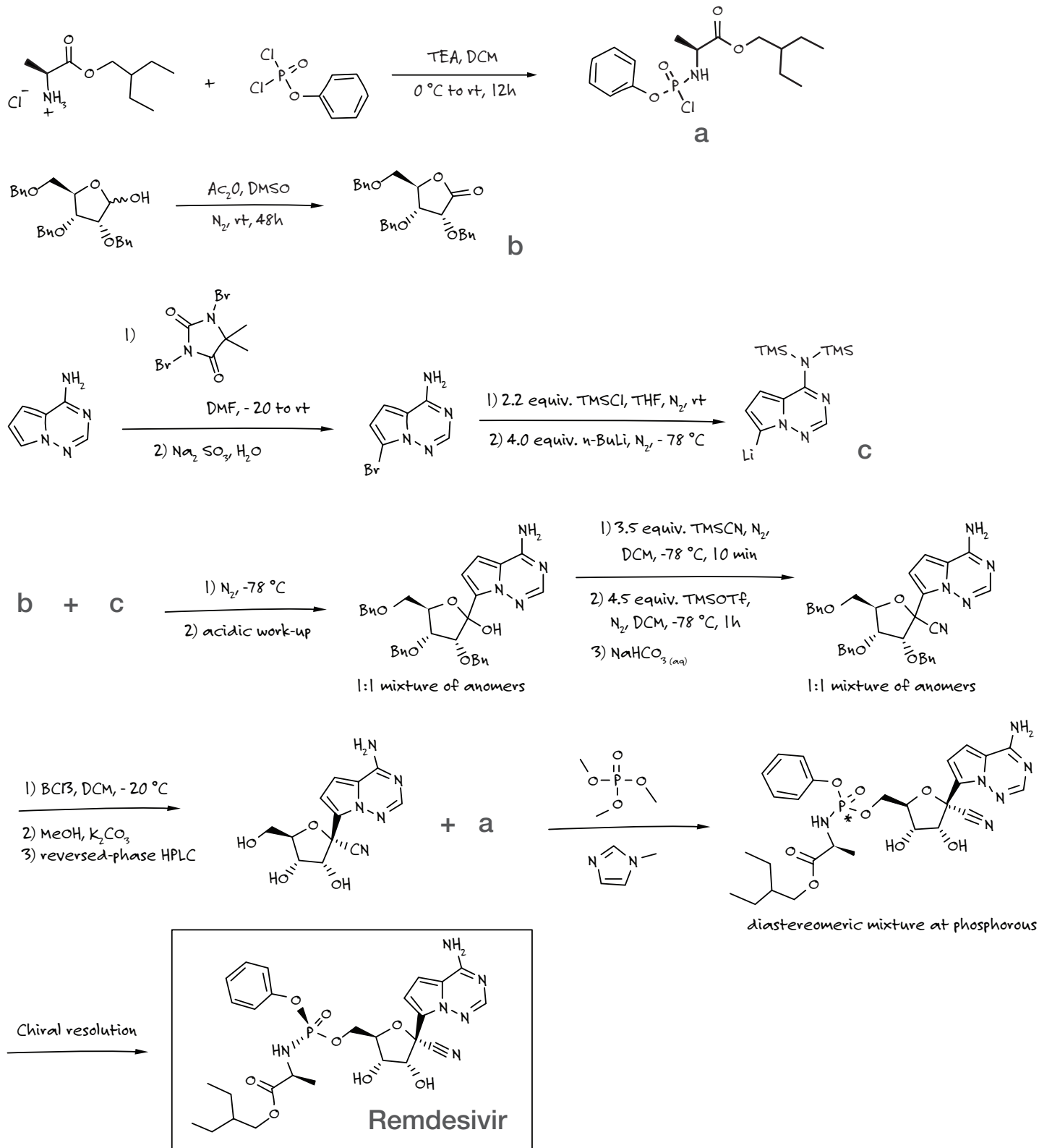
Focus on Remdesivir

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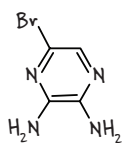
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Research into novel antivirals is very complex. Most compounds with antiviral activity share interesting structural features, with heterocycle scaffolds, complex multifunctional nature and often several chiral centres.

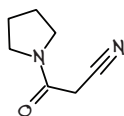
Remdesivir has emerged as a particularly promising therapeutic agent to fight severe acute respiratory syndrome-related coronavirus (SARS-CoV-2) infections.



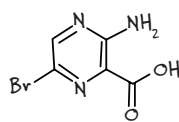
Key building blocks for Remdesivir, Acalabrutinib and other antivirals



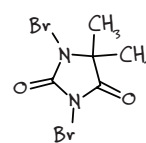
2,3-Diamino-5-bromopyrazine
Stock no: MAY00135
CAS: 89123-58-0



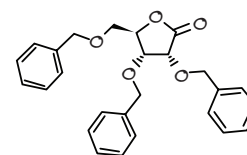
1-(Cyanoacetyl)pyrrolidine, 98+%
Stock no: A12523
CAS: 14227-95-3



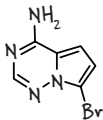
3-Amino-6-bromopyrazine-2-carboxylic acid, 97%
Stock no: 45742
CAS: 486424-37-7



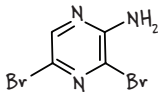
1,3-Dibromo-5,5-dimethylhydantoin, 98%
Stock no: A15510
CAS: 77-48-5



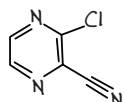
2,3,5-Tri-O-benzyl-D-ribofuranose-1,4-lactone
Stock no: 46870
CAS: 937046-98-5



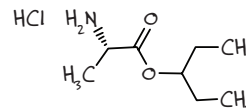
7-Bromopyrrolo[2,1-f][1,2,4]triazin-4-amine
Stock no: 46870 CAS: 937046-98-5



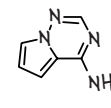
2-Amino-3,5-dibromopyrazine, 97%
Stock no: 39837
CAS: 24241-18-7



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



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



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

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Building blocks

Fisher Scientific Cat. No.	Description	CAS No	Sizes
AAA11271	L-Alanine ethyl ester hydrochloride, 98%	1115-59-9	5 g, 25 g
AC30836	L-Alanine methyl ester hydrochloride, 99%	2491-20-5	5 g, 25 g
AAB21672	N-Benzyloxycarbonyl-L-proline, 98+%	1148-11-4	5 g, 50 g, 250 g
AC46870	7-Bromopyrrolo[2,1-f][1,2,4]triazin-4-amine	937046-98-5	1 g, 5 g
AAB20954	4-Carboxyphenylboronic acid, 97%	14047-29-1	1 g, 5 g, 25 g
AAH26825	4-Carboxybenzeneboronic acid pinacol ester, 97%	180516-87-4	1 g, 5 g
KM04911	3-Chloropyrazine-2-carbonitrile, 97%	55557-52-3	1 g, 25 g
AAA15510	1,3-Dibromo-5,5-dimethylhydantoin, 98%	77-48-5	100 g, 500 g
AC46900	2,3-Dicyanopyrazine	13481-25-9	5 g, 25 g
AAA16001	1,3-Dimethyl-2-imidazolidinone, 98%	80-73-9	100 g, 500 g
AC46901	(S)-2-Ethylbutyl 2-aminopropanoate hydrochloride	946511-97-3	1 g, 5 g
AAA12575	1-Methylimidazole, 99%	616-47-7	100 g, 500 g, 2 kg
AC46899	Pyrrolo[1,2-f][1,2,4]triazin-4-amine	159326-68-8	1 g, 5 g
AAH33605	2,3,5-Tri-O-benzyl-D-ribofuranose, 98%	54623-25-5	1 g, 5 g
AC46864	2,3,5-Tri-O-benzyl-D-ribofuranose-1,4-lactone	55094-52-5	1 g, 5 g

Essentials

Fisher Scientific Cat. No.	Description	CAS No	Sizes
AAA15542	2-Butynoic acid, 98%	590-93-2	5 g, 25 g
AC22214	Acetic acid, 99.8%, for analysis	64-19-7	250 mL, 1 L, 2.5 L
AA36423	Acetonitrile, ACS, 99.5+%	75-05-8	500 mL, 1 L, 4 L, 4 x 1 L
AC13371	Ammonia, ca. 7N solution in methanol, AcroSeal™	7664-41-7	100 mL, 800 mL
AC11346	Dichloromethane, 99.8+%, for analysis, stabilized with amylene	75-09-2	1 L, 2.5 L, 5 L, 10 L, 25 L
AC32685	Dichloromethane, 99.9%, Extra Dry, stabilized, AcroSeal™	75-09-2	100 mL, 1 L, 2.5 L
AC23211	Ethyl acetate, 99.5%, for analysis	141-78-6	1 L, 2.5 L, 5 L, 25 L

(Continued)

Essentials (continued)

Fisher Scientific Cat. No.	Description	CAS No	Sizes
AC12463	Hydrochloric acid, for analysis, fuming, 37% solution in water	7647-01-0	500 mL, 1 L, 2.5 L, 10 L
AC12318	Hydrogen bromide, pure, 33 wt% solution in glacial acetic acid	37348-16-6	500 mL, 1 L, 2.5 L
AC42383	Isopropanol, 99.6%, ACS reagent	67-63-0	500 mL, 1 L, 2.5 L, 25 L
AC17684	Methanol, 99.9%, for analysis	67-56-1	500 mL, 1 L, 2.5 L, 10 L, 25 L
AC29552	Methyl sulfoxide, 99.8+%, extra pure	67-68-5	250 mL, 1 L, 2.5 L, 25 L
AC21058	N,N-Dimethylformamide, 99.5%, for analysis	68-12-2	500 mL, 1 L, 2.5 L, 10 L, 25 L
AC32687	N,N-Dimethylformamide, 99.8%, Extra Dry, AcroSeal™	68-12-2	100 mL, 1 L, 2.5 L
AC19804	Potassium carbonate, 99+%, for analysis, anhydrous	584-08-7	1 kg, 5 kg, 25 kg
AAA12535	Trimethylsilyl trifluoromethanesulfonate, 99%	27607-77-8	10 g, 50 g, 250 g

Reagents

Fisher Scientific Cat. No.	Description	CAS No	Sizes
AC10454	2-Aminopyridine	504-29-0	100 g, 500 g, 2.5 kg
AAB21026	2-Ethyl-1-butanol, 98%	97-95-0	500 mL, 2500 mL
AAL04295	Acetic anhydride, 99+%, for analysis	108-24-7	250 g, 1000 g, 2500 g
AAH32751	Boron trichloride, 1M solution in methylene chloride, AcroSeal™	10294-34-5	100 mL, 500mL
AAA13651	Chlorotrimethylsilane, 98%	75-77-4	25 mL, 100 mL, 500 mL
AAA11716	Diethylamine, 99.5%, for analysis	109-89-7	100 mL, 500 mL, 2500 mL
AC36531	HATU, 97%	148893-10-1	5 g, 25 g
AAA15922	N-Bromosuccinimide, 99%	128-08-5	250 g, 1000 g, 5000 g
AC21335	n-Butyllithium, 2.5M solution in hexanes, AcroSeal™	109-72-8	100 mL, 800 mL
AAA18012	Oxalyl chloride, 98%	79-37-8	50 g, 100 g, 250 g, 1000 g
AAA10479	Phenyl dichlorophosphate, 99%	770-12-7	25 g, 100 g, 500 g
AA10525	Phosphorus oxychloride, 99%	10025-87-3	250 g, 1 kg
AC21951	Triethylamine, 99.7%, extra pure	121-44-8	5 g, 50 g, 1 kg, 2.5 kg, 10 kg
AAA10595	Trimethyl phosphate, 99%	512-56-1	500 g, 2500 g
AAA19598	Trimethylsilyl cyanide, 98%	7677-24-9	5 g, 25 g, 100 g
AC42206	Trimethylsilyl cyanide, 98%, AcroSeal™	7677-24-9	100 mL

Catalysts

Fisher Scientific Cat. No.	Description	CAS No	Sizes
AA10491	Bis(triphenylphosphine)palladium(II) chloride, 98%	13965-03-2	1 g, 5 g, 25 g
AA46503	Dichloro[1,1'-bis(diphenylphosphino)ferrocene]palladium(II), Pd 13.0-14.5%	72287-26-4	1 g
AC39592	Raney®-Nickel, activated catalyst, 50% slurry in water	7440-02-0	100 g, 500 g

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