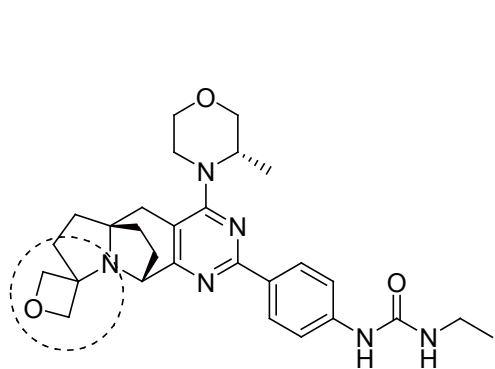
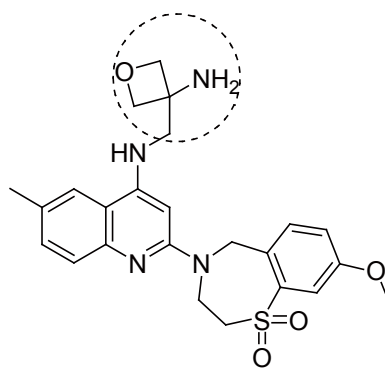


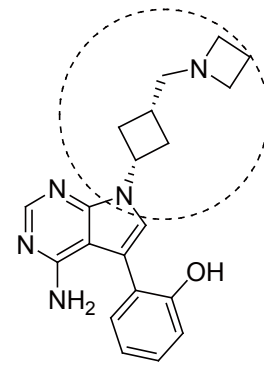
高反应活性的四元环产品包括环丁烷，氧杂环丁烷，氮杂环丁烷等。这类化合物在环上各个位置都可以官能化，并可以用于设计与合成一系列有生物活性的化合物，有着广泛的应用。例如，L-氮杂环丁烷-2-甲酸(2133-34-8)就是一种通过抑制胶原蛋白合成的抗血管生成抑制剂。它是L-脯氨酸的四元环类似物，引入时，可导致蛋白曲解。天然产物紫杉醇(paclitaxel) (Taxol®)，和他的合成类似物多西紫杉醇(docetaxel)，就是最著名的含氧杂环丁酮结构的药物示例。Joëlle Dubois和他的同事研究了氧杂环丁酮亚结构对多西紫杉醇的性能影响，并发现移除该结构后，这些类似物在生物测定中，活性均低于多西紫杉醇。四元环化合物已经成为化学家们在药物探索上的马良之笔，适当的引入该结构总能收到良好的效果。科学家们的研究也引发了包含四元环结构的化合物在文献和专利中数量上的剧烈增长：



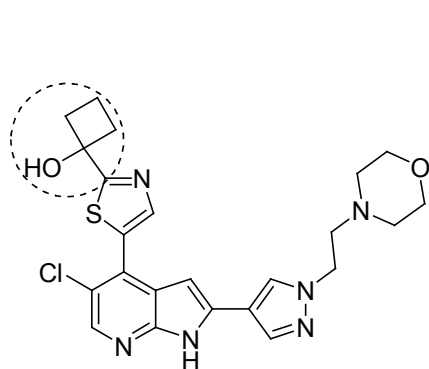
mTOR Inhibitor
Genentech
J.Med.Chem., 2013, 56(7), 3090-3101



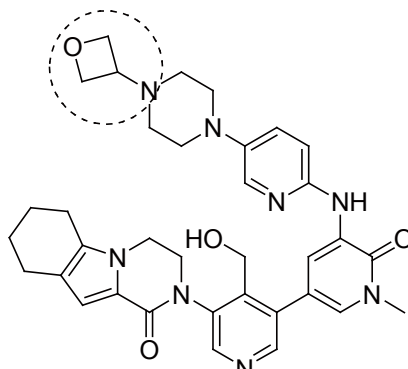
anti-RSV
Roche
WO 2013/020993



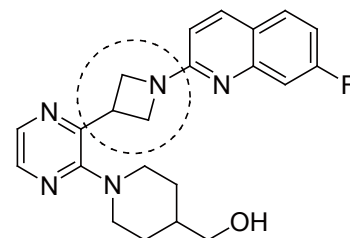
IGF-1R inhibitor
Novartis
WO 2011/029915



Abbott
WO 2011/143459



BTK inhibitor
Genentech, Inc.
WO 2013/067274



PDE10 inhibitor
Amgen
WO 2011/143365

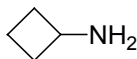
百灵威可以提供一系列从克级至公斤级，多种包装的四元环类产品。所有的产品都有着充足的库存，优异的质量和有竞争力的价格。

■ 环丁烷&环丁烯类化合物 Cyclobutanes & Cyclobutenes

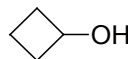
155198



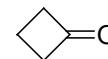
144311



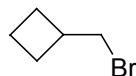
268029



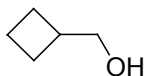
270250



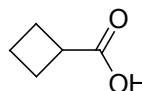
435231



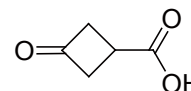
233989



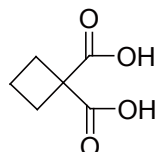
181953



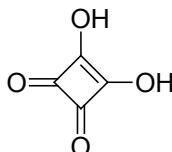
168489



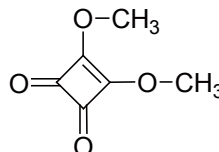
380229



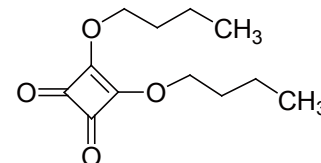
311369



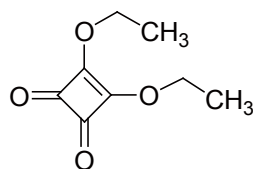
184022



491805



108051



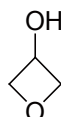
Cat. No.	Description	CAS	Pack Size
155198	Bromocyclobutane, 97% 溴代环丁烷	4399-47-7	250mg/1g/5g
144311	Cyclobutylamine, 98% 环丁胺	2516-34-9	1ml/5ml
268029	Cyclobutanol, 99% 环丁醇	2919-23-5	1g/5g/25g
270250	Cyclobutanone, 98% 环丁酮	1191-95-3	1g/5g/25g
435231	(Bromomethyl)cyclobutane, 98.5% (溴甲基)环丁烷	17247-58-4	5ml/25ml
233989	Cyclobutanemethanol, 99% 环丁基甲醇	4415-82-1	5g/25g
181953	Cyclobutanecarboxylic acid, 98% 环丁甲酸	3721-95-7	1g/5g/25g
168489	3-Oxo-cyclobutanecarboxylic acid, 95% 3-氧代环丁基甲酸	23761-23-1	1g/5g/25g
380229	1,1-Cyclobutanedicarboxylic acid, 99% 1,1-环丁基二甲酸	5445-51-2	5g/25g/100g
311369	3,4-Dihydroxy-3-cyclobutene-1,2-dione, 99% 3,4-二羟基-3-环丁烯-1,2-二酮	2892-51-5	5g/25g
184022	3,4-Dimethoxy-3-cyclobutene-1,2-dione, 99% 3,4-二甲氧基-3-环丁烯-1,2-二酮	5222-73-1	1g/5g
491805	3,4-Dibutoxy-3-cyclobutene-1,2-dione, 98% 3,4-二正丁氧基-3-环丁烯-1,2-二酮	2892-62-8	1g/5g/25g
108051	3,4-Diethoxy-3-cyclobutene-1,2-dione, 98% 3,4-二乙氧基-3-环丁烯-1,2-二酮	5231-87-8	1g/5g/25g

■ 氧杂环丁烷化合物 Oxetanes

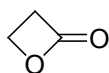
835702



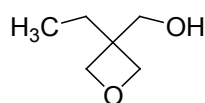
K11012796



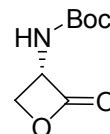
996513



430627



439836



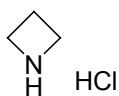
Cat. No.	Description	CAS	Pack Size
835702	Oxetan-3-one, 95% 3-氧杂环丁酮	6704-31-0	500mg/1g/5g
996513	β-Propiolactone, 98%, research grade β-丙内酯	57-57-8	5ml/25ml
430627	3-Ethyl-3-oxetanemethanol, 98% 3-乙基-3-氧杂丁环甲醇	3047-32-3	25g/100g
439836	N-Boc-L-serine β-lactone, 98% N-Boc-L-丝氨酸 β-内酯	98541-64-1	1g
K11012796	3-Oxetanol, 98% 3-氧杂环丁醇	7748-36-9	1g/5g/25g

■ 氮杂环丁烷化合物 Azetidines

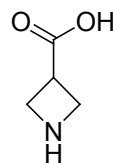
246240



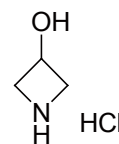
474517



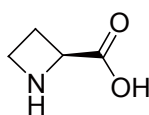
172318



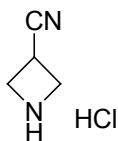
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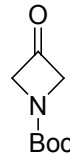
237409



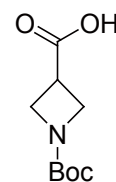
804022



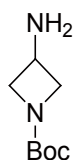
336714



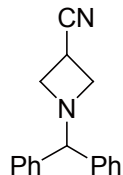
129471



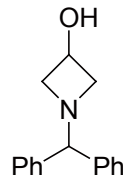
104410



260134



616566



Cat. No.	Description	CAS	Pack Size
246240	Azetidine, 95% 氮杂环丁烷	503-29-7	250mg/1g/5g
474517	Azetidine hydrochloride, 99% 氮杂环丁烷盐酸盐	36520-39-5	1g/5g/25g
172318	Azetidine-3-carboxylic acid, 98% 氮杂环丁烷-3-甲酸	36476-78-5	1g/5g/25g
563718	3-Hydroxyazetidine hydrochloride, 97% 3-羟基氮杂环丁烷盐酸盐	18621-18-6	1g/5g
237409	L-Azetidine-2-carboxylic acid, 98% L-氮杂环丁烷-2-甲酸	2133-34-8	50mg/250mg
804022	Azetidine-3-carbonitrile hydrochloride, 97% 3-氰基-氮杂环丁烷盐酸盐	345954-83-8	1g/5g
336714	1-Boc-3-azetidinone, 98% 1-Boc-3-氮杂环丁酮	398489-26-4	250mg/1g/5g
129471	N-Boc-azetidine-3-carboxylic acid, 97% N-Boc-氮杂环丁烷-3-甲酸	142253-55-2	1g/5g
104410	1-Boc-3-aminoazetidine, 97% 1-Boc-3-氨基氮杂环丁烷	193269-78-2	250mg/1g
260134	1-Benzhydryl-azetidine-3-carbonitrile, 97% 1-二苯甲基-3-氰基氮杂环丁烷	36476-86-5	500mg/5g
616566	1-(Diphenylmethyl)-3-hydroxyazetidine, 98% 1-(二苯甲基)-3-羟基氮杂环丁烷	18621-17-5	1g/5g/25g

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