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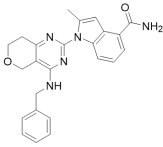
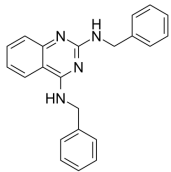
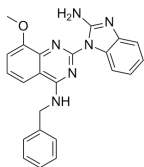
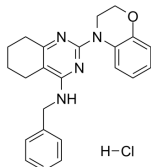
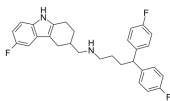
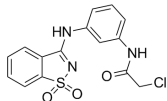
Inhibitors, Agonists, Screening Libraries

p97

VCP; Cdc48

p97, an abundant hexameric ATPase of the AAA family, is involved in homotypic membrane fusion. It is thought to disassemble SNARE complexes formed during the process of membrane fusion. Two structures have been reported: a crystal structure of the N-terminal and D1 ATPase domains of murine p97 at 2.9 Å resolution, and a cryoelectron microscopy structure of full-length rat p97 at 18 Å resolution. Together, these structures show that the D1 and D2 hexamers pack in a tail-to-tail arrangement, and that the N domain is flexible. A comparison with NSF D2 (ATP complex) reveals possible conformational changes induced by ATP hydrolysis.

p97 Inhibitors

CB-5083 CB-5083 is a first-in-class, potent, selective, and orally bioavailable inhibitor of the p97 AAA ATPase/VCP. CB-5083 selectively inhibits p97 through its D2 site with the IC_{50} of 11 nM. Purity: 99.95% Clinical Data: Phase 1 Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg	Cat. No.: HY-12861 	DBeQ (JRF 12) DBeQ is a selective, potent, reversible, and ATP-competitive p97 inhibitor, with an IC_{50} value of 1.5 μ M and 1.6 μ M for p97(wt) and p97(C522A), respectively; DBeQ also inhibits Vps4 with an IC_{50} of 11.5 μ M. Purity: 99.94% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg	Cat. No.: HY-15945 
ML240 ML240 is a potent p97 inhibitor, inhibiting p97 ATPase with IC_{50} value of 100 nM. Purity: 99.76% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg	Cat. No.: HY-19795 	ML241 hydrochloride ML241 hydrochloride is a potent p97 inhibitor, inhibiting p97 ATPase with IC_{50} value of 100 nM. Purity: 99.86% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg	Cat. No.: HY-19797A 
MSC1094308 MSC1094308 is a reversible and allosteric inhibitor of the type II AAA ATPase human ubiquitin-directed unfoldase (VCP)/p97 and the type I AAA ATPase VPS4B, with IC_{50} values of 0.71 μ M and 7.2 μ M for VPS4B and p97, respectively. Purity: 99.75% Clinical Data: Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg	Cat. No.: HY-123872 	NMS-859 NMS-859 is a potent, covalent VCP (p97) inhibitor, with IC_{50} s of 0.37 and 0.36 μ M for wild-type VCP in the presence of 60 μ M and 1 mM ATP in cells, respectively. Purity: 97.65% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg	Cat. No.: HY-15714 
NMS-873 NMS-873 is a potent, selective allosteric VCP/p97 inhibitor with an IC_{50} value of 30 nM. Purity: 99.86% Clinical Data: No Development Reported Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg	Cat. No.: HY-15713 