

Calcium Signaling

Calmodulin

Phenoxybenzamine

Inhibits calmodulin in a calcium-dependent and irreversible manner.¹

Product No: 10-1237 100 mg/ 500 mg/
STO-609

Selective inhibitor of Ca²⁺-calmodulin-dependent kinase kinase (CaMKK).²

Product No: 10-1036 5 mg/ 25 mg/
Ophiobolin A

Fungal metabolite inhibitor of calmodulin.³

Product No: 10-3150 200 µg/ 1 mg/

Calcium Ionophores / Chelators

BAPTA-AM

Cell permeable Ca²⁺ chelator widely used as an intracellular calcium sponge.⁴

Product No: 10-1203 5 mg/ 25 mg/

BAPTA-free acid

Extracellular Ca²⁺ chelator widely used as an extracellular calcium sponge.⁵

Product No: 10-1204 100 mg/ 500 mg/

Ionomycin

Highly selective nonfluorescent Ca²⁺ ionophore.⁶

Product No: 10-2079 1 mg/ 5 mg/

Na⁺/Ca²⁺ exchanger (NCX)

KB-R7943

Potent and selective inhibitor of the Na⁺/Ca²⁺ exchanger (NCX)⁷ as well as the mitochondrial Ca²⁺ uniporter (MCU)⁸.

Product No: 10-1163 10 mg/ 50 mg/

Bepiridil

Clinically useful calcium channel blocker that also blocks the Na⁺/Ca²⁺ exchanger.⁹

Product No: 10-4958 5 mg/ 25 mg/

CGP-37157

Selective inhibitor of the mitochondrial Na⁺/Ca²⁺ exchanger.¹⁰

Product No: 10-4250 10 mg/ 50 mg/

Store-operated calcium entry

QNZ

Inhibitor of store-operated calcium entry that displays neuroprotective effects.^{11,12}

Product No: 10-4009 5 mg/ 25 mg/

YM-58483

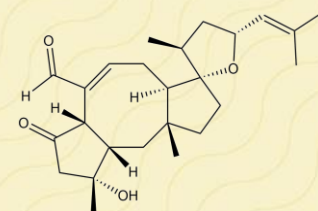
Blocker of calcium release-activated calcium channels (CRAC), a prototypic store-operated calcium channel.¹³

Product No: 10-2935 5 mg/ 25 mg/

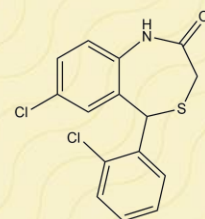
N-Acetyl-S-farnesyl-L-cysteine

Farnesyltransferase inhibitor that also blocks capacitative Ca²⁺ influx and store-regulated Ca²⁺ entry.^{14,15}

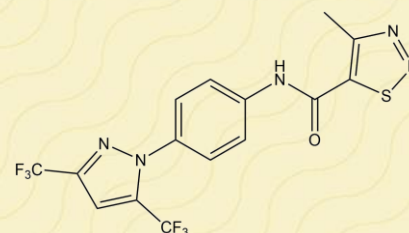
Product No: 10-4610 5 mg/ 25 mg/



Ophiobolin A



CGP-37157



YM-58483

REFERENCES

1. Earl *et al.* (1984) *Life Sci.* **355** 525
2. Tokumitsu *et al.* (2002) *J. Biol. Chem.* **278** 10908
3. Leung *et al.* (1984) *J. Biol. Chem.* **259** 2742
4. Smith *et al.* (1992) *Biochem. J.* **288** 925
5. Munoz *et al.* (2015) *PLoS One* **10** e0138008
6. Kaufmann *et al.* (1980) *J. Biol. Chem.* **255** 2735
7. Hoyt *et al.* (1998) *Mol. Pharmacol.* **53** 742
8. Santo-Domingo *et al.* (2007) *Br. J. Pharmacol.* **151** 647
9. Wantanabe and Kimura (2001) *Jpn. J. Pharmacol.* **85** 370
10. Cox *et al.* (1993) *J. Cardiovasc. Pharmacol.* **21** 595
11. Choi *et al.* (2006) *J. Biol. Chem.* **281** 12722
12. Wu *et al.* (2011) *Chem. Biol.* **18** 777
13. Zitt *et al.* (2004) *J. Biol. Chem.* **279** 12427
14. Xu *et al.* (1996) *Mol. Pharmacol.* **50** 1495
15. Rosado and Sage (2000) *Biochem. J.* **347** 183