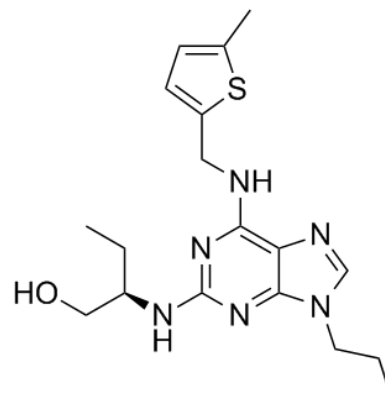


Product Name : GV-58
Cat. No. : PC-43065
CAS No. : 1402821-41-3
Molecular Formula : C₁₈H₂₆N₆OS
Molecular Weight : 374.5036
Target : Calcium Channel
Solubility : 10 mM in DMSO



Biological Activity

GV-58 is a potent, selective N-Type and P/Q-type Ca²⁺ Channel agonist with EC₅₀ of 7.2 and 8.8 μM, shows no activity for L-type calcium channels (EC₅₀>100 μM); has 20-fold less potent cyclin-dependent kinase antagonist effect; slows deactivation (closing) of the channel, resulting in a large increase in total calcium entry during motor nerve action potential activity; weakens Lambert-Eaton myasthenic syndrome-model neuromuscular synapses in a passive transfer mouse model of Lambert-Eaton myasthenic syndrome.

References

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- Tarr TB, et al. J Neurosci. 2013 Jun 19;33(25):10559-67.
- Tarr TB, et al. J Physiol. 2014 Aug 15;592(16):3687-96.
- Liang M, et al. ACS Med Chem Lett. 2012 Oct 1;3(12):985-90.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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