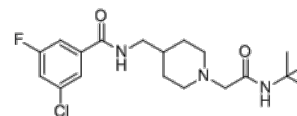


Product Name : Z-944
Cat. No. : PC-62009
CAS No. : 1199236-64-0
Molecular Formula : C₁₉H₂₇ClFN₃O₂
Molecular Weight : 383.89
Target : Calcium Channel
Solubility : 10 mM in DMSO



Biological Activity

Z-944 (Ulixacaltamide) is a potent, highly selective and oral **T-type calcium channel blocker** with IC₅₀ of 50-160 nM for human Cav3.1, Cav3.2, and Cav3.3 channels.

Z-944 (Ulixacaltamide) displays 70 times more potent for T-type blockade than for blockade of the N-type channel (IC₅₀=11 μM).

Z-944 (Ulixacaltamide) potently suppress seizure activity and attenuates burst firing of thalamic reticular nucleus neurons in the GAERS model of absence epilepsy.

Z-944 (Ulixacaltamide) restores cortical synchrony and thalamocortical connectivity in a rat model of neuropathic pain.

References

Tringham E, et al. *Sci Transl Med*. 2012 Feb 15;4(121):121ra19.

Casillas-Espinosa PM, et al. *PLoS One*. 2015 Aug 14;10(8):e0130012.

LeBlanc BW, et al. *Pain*. 2016 Jan;157(1):255-63.

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

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