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## Product Datasheet

**Z944, CAS [[1199236-64-0]]**

**FBM-10-3994**

Article Name	Z944, CAS [[1199236-64-0]]
Biozol Catalog Number	FBM-10-3994
Supplier Catalog Number	10-3994
Alternative Catalog Number	FBM-10-3994-5MG, FBM-10-3994-25MG
Manufacturer	Focus Biomolecules
Category	Biochemikalien
Product Description	T-type calcium channel blocker...
Molecular Weight	383.89
Purity	>98% by HPLC, NMR (conforms)
Form	White solid
CAS Number	[1199236-64-0]
Formula	C19H27ClFN3O2

Application Notes

Z944 is a highly selective (70 fold over N-type) T-type calcium channel blocker ( $IC_{50}$  hCav3.2 = 50 nM).<sup>1</sup> It was 2.5 to 4-fold more potent for the inactivated T-type channel than for the closed channel. It was also selective against the Cav1.2, hERG, and Nav1.5 channels. Z944 potently suppressed seizures in absence epilepsy<sup>1</sup> and temporal lobe epilepsy<sup>2</sup> models. It reversed thermal hyperalgesia and conditioned place preference in a neuropathic pain model.<sup>3</sup> Z944 reversed mechanical allodynia in a model of persistent inflammatory pain<sup>4</sup> and displayed an antihyperalgesic effect in a model of trigeminal neuralgia<sup>5</sup>. Z944 significantly improved autism spectrum disorder-related behaviors via suppression of reticular thalamic hyperexcitability.<sup>6</sup>