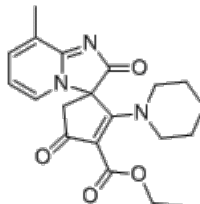


Product Name	: SAK3	
Synonyms	: T-VGCC enhancer SAK3	
Cat No.	: M11047	
CAS Number	: 1256269-87-0	
Molecular Formula	: C ₂₀ H ₂₃ N ₃ O ₄	
Formula Weight	: 369.42	
Chemical Name	: Ethyl 8'-methyl-2',4-dioxo-2-(piperidin-1-yl)-2'H-spiro[cyclopent[2]ene-1,3'-imidazo[1,2-a]pyridine]-3-carboxylate	
Description	: SAK3 (T-VGCC enhancer SAK3) is a potent, orally active enhancer of T-type voltage-gated Ca ²⁺ channel (T-VGCC), enhances Ca _v 3.1 and Ca _v 3.3, but not Ca _v 3.2 activity at concentrations of 0.01-10 nM in neuro2A cells in vitro; significantly enhanced acetylcholine (ACh) release in the hippocampal CA1 region of naive mice (0.5 mg/kg, p.o.); significantly enhanced hippocampal ACh levels in olfactory-bulbectomized (OBX) mice, rescuing impaired memory-related behaviors.	
Pathway	: GPCR/G Protein	
Target	: Calcium Channel	
Receptor	: Calcium Channel	
Solubility	: —	
SMILES	: <chem>O=C(C1=C(N2CCCCC2)C3(N4C=CC=C(C)C4=NC3=O)CC1=O)OCC</chem>	
Storage	: (-20°C)	
Stability	: ≥ 2 years	
Reference	:	

1. Yabuki Y, et al. Neuropharmacology. 2017 May 1;117:1-13. | 2. Izumi H, et al. Neuroscience. 2018 May 1;377:87-97. | 3. Husain N, et al. Pharmacology. 2018;101(5-6):309-321. | 4. Wang S, et al. PLoS One. 2018 Dec 20;13(12):e0206986.