Sodium channel blockers library

Catalog No: #L7400

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Description

Product Name	Sodium channel blockers library
Brief Description	Sodium channels are integral membrane proteins that form ion channels, conducting sodium ions (Na+) through a cell's plasma membrane. According to the trigger that opens the channel for such ions, they can be classified into Voltage-gated sodium channels and ligand-gated sodium channels. Sodium channels are highly selective for the transport of sodium ions across cell membranes. In excitable cells such as neurons, myocytes, and certain types of glia, sodium channels are responsible for the rising phase of action potentials.Many of the most common neurological disorders, such as epilepsy, migraine, neurodegenerative diseases, and neuropathic pain, involve abnormalities of neuronal excitability. There is a growing body of data that implicates abnormal expression and function of voltage-gated sodium channels (VGSCs) in these disorders. Pharmacological inhibitors of VGSCs have been used for decades to treat epileptic seizures, the most common disease of neuronal excitability, and arrhythmia, and it is becoming increasingly evident that these antiepileptic VGSC blockers might also be efficacious against a broad range of neurological disorders. Sodium channels serve as specific target for a large variety of chemically distinct neurotoxins produced by many different animals and plants. The development of drugs with enhanced selectivity for specific VGSC isoforms might be an effective and novel approach for the treatment of several neurological diseases. SABs Sodium Channel Blockers Library collects 62 reported sodium channel blockers and agonists, and is an ideal tool for screening more selective and efficient drugs targeting potassium channels
Storage	Powder or pre-dissolved DMSO solutions in 96 well plate with optional 2D barcodeShipped with dry ice

Application Details

Number of Compounds:62

Product Description

A unique collection of 62 sodium channel blockers and agonists for high throughput and high content screening; Targeting different subtypes of sodium channels, such as Nav1.1, Nav1.2, Nav1.3, Nav1.4, etc. Bioactivity and safety confirmed by pre-clinical research and clinical trials, some of which are FDA approved; Detailed compound information with structure, target, activity, IC50 value, and biological activity description; Structurally diverse, medicinally active, and cell permeable; NMR and HPLC validated to ensure high purity and quality;

Note: This product is for in vitro research use only