Serotonin Compound Library

Catalog No: #L2800



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Product Name Serotonin Compound Library

Brief Description

Serotoninor5-hydroxytryptamine(5-HT) is amonoamine neurotransmitter, derivative from the amino acidtryptophan, and mainly located in the enterochromaffin cells in the GI tract and central nervous system (CNS). It has a popular image as a contributor to feelings of well-being andhappiness, though its actual biological function is complex and multifaceted, modulating cognition, reward, learning, memory, and numerous physiological processes. Serotonin receptors, are a group of protein-coupled receptorandligand-gated ion channelsfound in thecentralandperipheral nervous systems. They can be divided into 7 families of protein-coupled receptorsexcept for the5-HT3receptor, aligand-gated ion channel, which activate anintracellularsecond messengercascade to produce an excitatory or inhibitory response. They mediate bothexcitatory and inhibitoryneurotransmission, influencing various biological and neurological processes. The serotonin receptors are the target of a variety of pharmaceutical and recreational drugs, including manyantidepressants,antipsychotics,anorectics,antiemetics,gastroprokinetic agents,antimigraine agents,hallucinogens, andentactogens.

The Serotonin (5-HT) Compound Library by SAB, collecting 134 small chemicals targeting serotonin receptors, can be used for high throughput screening and high content screening, and drug discovery in neurological disorders.

Storage

Powder or pre-dissolved DMSO solutions in 96 well plate with optional 2D barcodeShipped with blue ice; Stable for One year as powder, 6 months at - 20 ° C in DMSO or 12months at -80 ° C in DMSO

Application Details

Number of Compounds:134

Product Description

A unique collection of 134 compounds targeting serotonin receptors for high throughput screening and high content screening; Targets include serotonin receptors: 5-HT1, 5-HT2, 5-HT3, 5-HT4, 5-HT6, 5-HT7, etc; Bioactivity and safety confirmed by pre-clinical research and clinical trials, and some of them are approved by FDA; 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