

## Serotonin Compound Library

Catalog No: #L2800

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

Product Name	Serotonin Compound Library
Brief Description	<p>Serotonin or 5-hydroxytryptamine (5-HT) is a monoamine neurotransmitter, derivative from the amino acid tryptophan, 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 and happiness, though its actual biological function is complex and multifaceted, modulating cognition, reward, learning, memory, and numerous physiological processes. Serotonin receptors, are a group of G protein-coupled receptor and ligand-gated ion channels found in the central and peripheral nervous systems. They can be divided into 7 families of G protein-coupled receptors except for the 5-HT<sub>3</sub> receptor, a ligand-gated ion channel, which activate an intracellular second messenger cascade to produce an excitatory or inhibitory response. They mediate both excitatory and inhibitory neurotransmission, influencing various biological and neurological processes. The serotonin receptors are the target of a variety of pharmaceutical and recreational drugs, including many antidepressants, antipsychotics, anorectics, antiemetics, gastroprokinetic agents, antimigraine agents, hallucinogens, and entactogens.</p> <p>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.</p>
Storage	<p>Powder or pre-dissolved DMSO solutions in 96 well plate with optional 2D barcode. Shipped with blue ice;</p> <p>Stable for One year as powder, 6 months at -20 °C in DMSO or 12 months at -80 °C in DMSO</p>

## 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-HT<sub>1</sub>, 5-HT<sub>2</sub>, 5-HT<sub>3</sub>, 5-HT<sub>4</sub>, 5-HT<sub>6</sub>, 5-HT<sub>7</sub>, 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, IC<sub>50</sub> 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