

Autophagy Compound Library

Catalog No: #L3200

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Description

Product Name	Autophagy Compound Library
Brief Description	Autophagy is the natural, regulated mechanism of the cell that disassembles unnecessary or dysfunctional components. Targeted damaged cytoplasmic constituents are isolated from the rest of the cell within a double-membraned vesicle known as an autophagosome. The autophagosome eventually fuses with lysosomes and the contents are degraded and recycled. Autophagy, cellular senescence, and apoptosis are three key responses of a cell facing a stress, correlating with each other. It has been reported that defects of autophagy are associated with genomic damage, metabolic stress, and tumorigenesis. The Autophagy Compound library by SAB contains 623 compounds with defined autophagy-inducing or -inhibitory activity, and is a useful tool for studying the roles of pro- and anti-autophagic molecules in cells as well as for use in <i>in vitro</i> applications.
Storage	Powder or pre-dissolved DMSO solutions in 96 well plate with optional 2D barcode. Shipped with blue ice; Stable for One year as powder, 6 months at -20 °C in DMSO or 12 months at -80 °C in DMSO.

Application Details

Number of Compounds: 623

Product Description

A unique collection of 623 compounds with defined autophagy-inducing or -inhibitory activity for research in autophagy, high throughput screening (HTS) and high content screening (HCS) for new drugs; Bioactivity and safety confirmed by pre-clinical research and clinical trials; Targets include Autophagy inducers, Autophagy inhibitors, Proteasome, HIF, HDAC, Aurora Kinase, E3 Ligase, mTOR, etc; 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