

Chromatin modification compound library

Catalog No: #L8300

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Description

Product Name	Chromatin modification compound library
Brief Description	<p>Chromatin modification, also called Chromatin remodeling, is the rearrangement of chromatin from a condensed state to a transcriptionally accessible state, allowing transcription factors or other DNA binding proteins to access DNA and control gene expression. Such remodeling is principally carried out by 1) covalent histone modifications by specific enzymes, e.g., histone acetyltransferases (HATs), deacetylases, methyltransferases, and kinases, and 2) ATP-dependent chromatin remodeling complexes which either move, eject or restructure nucleosomes. Chromatin remodeling is highly implicated in epigenetics. Epigenetic modifications to histone proteins such as methylation/demethylation and acetylation/deacetylation can alter the structure of chromatin resulting in transcriptional activation or repression. Aberrations in chromatin remodeling proteins are found to be associated with human diseases, including cancer. Targeting chromatin remodeling pathways is currently evolving as a major therapeutic strategy in the treatment of several cancers.</p> <p>Chromatin Modification Compound Library from SAB is a unique collection of 192 compounds targeting chromatin remodeling pathways that can be used for high throughput and high content screening</p>
Storage	Powder or pre-dissolved DMSO solutions in 96 well plate with optional 2D barcode Shipped with dry 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: 192

Product Description

A unique collection of 192 compounds targeting chromatin remodeling pathway for high throughput screening (HTS) and high content screening (HCS); Safety and effectiveness of the small molecules have been demonstrated through preclinical and clinical research, and some of which are FDA approved; Detailed compound information with structure, target, activity, IC50 value, and biological activity description; NMR and HPLC/LCMS validated to ensure high purity and quality;

Note: This product is for in vitro research use only