Anti-cancer metabolism compound library

Catalog No: #L2130

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Description

Product Name	Anti-cancer metabolism compound library
Brief Description	Cancer metabolismhas emerged as an important area ofresearchin recent years. Reprogramming of the cellular energy metabolism, essential for cancer cell proliferation and tumor development, constitutes an emerging hallmark of cancer and may serve as a biochemical basis for new therapeutic intervention. From the abnormal aerobic glycolysis effect in tumor cells was first discovered by German scientist Warburg in the early 1920s to now on all aspects of tumor metabolic activity (sugar, fat, amino acids, etc.) analysis and complex metabolic regulation network discovery, the study of tumor metabolism has entered into a more striking height. Distinct metabolic pathways (glycolysis and glutaminolysis), key regulators of aerobic glycolysis (AMPK, mTOR, HIF-1, c-Myc, p53, etc.), and key metabolism enzymes (PKM, HK, PFK, PK, IDH, GLS) might be the key targets for tumor therapeutics. Developing inhibitors targeting dysregulated metabolic enzymes and pathways may represent a promising strategy to overcome drug resistance in cancer therapy. A unique collection of 130 cancer cellular metabolism related compounds by SAB can be used for cancer related research and high throughput and high content screening for anti-cancer drugs.
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:130

Product Description

A unique collection of 130 cancer cellular metabolism related compounds for cancer research and high throughput screening (HTS) and high content screening (HCS); Bioactivity and safety confirmed by pre-clinical research and clinical trials; Covers 16 major targets related to cancer cellular metabolism (glucose, proteins,?lipids?and?nucleic acids) including ACL, CA, FASN, GLUT, GLS, HMG-CoA, MAGL, MCTs, PDH, PDK, PKM, etc.; Effect tool for research in cancer metabolism and anti-cancer drug screening. 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