

L8100	Cell cycle related compound Library	130	cpds
<p>Cell cycle, the ordered sequence of events that occur in acellin preparation for cell division, is also divided into two periods: interphase and the mitotic(M) phase. Interphase itself is split into different phases: G₁ phase, S phase and G₂ phase. Cell Cycle related compounds rely on differing mechanisms of action to regulate the normal progression of the cell cycle. Some of these compounds interfere with CDK/cyclin complexes leaving cells stuck at the G₂/M phase border, while others affect CaMKII phosphorylation, inducing arrest at the G₁phase. Other mechanisms of action include interference with RNA function and inhibition of protein synthesis. Many of these compounds ultimately induce apoptosis as a result of their interruption of the cell cycle. This library can be used for anti-cancer drug screening.</p> <p>The TargetMol's Cell Cycle Compound Library, a unique collection of 130 cell cycle related compounds, can be used for research in cell cycle and related drug screening.</p> <ul style="list-style-type: none"> • A unique collection of 130 cell cycle related compounds for high throughput screening (HTS) and high content screening (HCS); • Targets include CDK, ROCK, Aurora Kinase, ATM/ATR, DNA-PK, DNA/RNA Synthesis, etc.; • Effective tool for research in cell cycle and related diseases, such as cancer, cardiovascular diseases, inflammation, neurodegenerative diseases, etc.; • Safety and effectiveness of the small molecules have been demonstrated through preclinical and clinical research, and some of them are FDA approved; • Detailed compound information with structure, target, activity, IC₅₀ value, and biological activity description; • Structurally diverse, medicinally active, and cell permeable; • NMR and HPLC/LCMS validated to ensure high purity and quality; 			