

Anti-immune Disease Compound Library

Catalog No: #L4700

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Description

Product Name	Anti-immune Disease Compound Library
Brief Description	An autoimmune disorder occurs when the body's immune system attacks and destroys healthy body tissue by mistake. Areas often affected by autoimmune disorders include blood vessels, connective tissues, joints, and skin, etc. The chemical advances in the 19th and 20th centuries brought about the development of non-steroidal anti-inflammatory drugs (NSAIDs). Although effective in the treatment of inflammatory diseases, NSAIDs have some undesirable and adverse effect, such as ulcers, kidney injury, and bleeding in the gastrointestinal tract. Although initially identified as anti-tumor molecule, TNF is now considered as a pleiotropic cytokine which plays a major role in immune or inflammatory responses. Consequently, anti-TNF biologics, which are designed to block the biological function of TNF, have been developed for the therapy of autoimmune inflammatory diseases. The success of biologics for autoimmune diseases coupled with rapid advances in basic research has validated many immunology-relevant signaling pathways and uncovered new intracellular molecules to target for potential new drug agents that can enter the cell. For example, many small chemicals or macrolide derivatives that can inhibit immunoproteasome, nucleus output proteins, NF- κ B, and TNF- α have the potential to be developed as the drugs to treat the autoimmune inflammatory diseases and chronic inflammatory diseases.
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: 876

Product Description

A unique collection of 876 anti-inflammation compounds effective for high throughput screening and high content screening. Bioactivity and safety confirmed by clinical research and trials, some of which 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 validated to ensure high purity and quality;

Note: This product is for in vitro research use only