JAK/STAT Compound Library

Catalog No: #L3700

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Description

Product Name	JAK/STAT Compound Library
Brief Description	Cell signal transductionis the transmission of molecular signals via various proteins in asignaling cascade, which carries and amplifies the signal. TheJAK-STAT signaling pathwaycommunicates information from chemical signals outside of a cell to thecell nucleus, resulting in the activation of genes through a process calledtranscription. There are three key parts of JAK-STAT signaling:Janus kinases(JAKs),Signal Transducer and Activator of Transcription proteins(STATs), and receptors (which bind the chemical signals). JAK-STAT signaling pathway is a chain of interactions between proteins in a cell, and is involved in processes such asimmunity,cell division,cell deathandtumor formation. Disrupted JAK-STAT signaling may lead to a variety of diseases, such as skin conditions,cancers, and disorders affecting the immune system. There are 4 JAK proteins:JAK1,JAK2,JAK3andTYK2, and there are 7 STAT proteins:STAT1,STAT2,STAT3,STAT4,STAT5A,STAT5BandSTAT6. JAK/STAT Compound Library from SAB, a unique collection of 145 compounds targeting JAK/STAT signaling, can be used for research in JAK/STAT signaling and related drug screening (high throughput and high content screening).
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:145

Product Description

A unique collection of 145 JAK/STAT signaling targeted compounds for high throughput and high content screening; Effective tool for studying the JAK/STAT targets; Bioactivity and safety confirmed by pre-clinical research and clinical trials; 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