

## JAK/STAT Compound Library

Catalog No: #L3700

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## Description

Product Name	JAK/STAT Compound Library
Brief Description	<p>Cell signal transduction is the transmission of molecular signals via various proteins in a signaling cascade, which carries and amplifies the signal. The JAK-STAT signaling pathway communicates information from chemical signals outside of a cell to the cell nucleus, resulting in the activation of genes through a process called transcription. 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 as immunity, cell division, cell death and tumor 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, JAK3 and TYK2, and there are 7 STAT proteins: STAT1, STAT2, STAT3, STAT4, STAT5A, STAT5B and STAT6.</p> <p>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).</p>
Storage	<p>Powder or pre-dissolved DMSO solutions in 96 well plate with optional 2D barcode. Shipped with blue ice;</p> <p>Stable for One year as powder, 6 months at -20 °C in DMSO or 12 months at -80 °C in DMSO</p>

## 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, IC<sub>50</sub> 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