

GPCR Compound Library

Catalog No: #L1500

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Description

Product Name	GPCR Compound Library
Brief Description	<p>G-protein-coupled receptors(GPCRs) are the largest and most diverse group of membrane receptors in eukaryotes that detect molecules outside the cell and activate internal signal transduction pathways and, ultimately, cellular responses. GPCRs are involved in nearly every aspect of animal life, from early development and heart function to neuronal activity. Mutations in GPCRs are linked to a number of human diseases. GPCRs are an important drug target and approximately 34% of the marketed drugs target 108 members of this family, with an additional 66 receptors targeted by agents that are/were in clinical trials. GPCR-based drug discovery remains active campaigns in major pharmaceutical companies. To date more than 140 orphan GPCRs, whose endogenous ligands are unknown, are the focus of an intense drug discovery effort in many programs.</p> <p>Specifically, the optimal ligands to GPCRs need to possess high affinity and specificity for the target protein, and reasonable membrane permeability for biological activity in whole cell assays and in vivo models. GPCR Compound Library from SAB, a focused small molecule libraries developed against particular GPCRs containing 730 GPCR-active agents for GPCR drug discovery</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: 730

Product Description

A unique collection of 730 GPCR-active agents for high throughput screening and high content screening for GPCR drug discovery, and new GPCR target identification and research; Potential to find new GPCR drug candidates by screening against orphan GPCRs; Bioactivity and safety confirmed by pre-clinical research and clinical trials, and some of them are approved by FDA; Targets include 5-HT receptor, dopamine receptor, opioid receptor, adrenergic receptor, mGluR, Cannabinoid receptor, ETA-receptor, etc; 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