

Selected plant-sourced compound library

Catalog No: #L4600

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Description

Product Name	Selected plant-sourced compound library
Brief Description	<p>Nature, the master of craftsman of molecules created almost an inexhaustible array of molecular entities. It stands as an infinite resource for drug development, novel chemotypes and pharmacophores, and scaffolds for amplification into efficacious drugs for a multitude of disease indications and other valuable bioactive agents. Plants have been the basis of many traditional medicine systems throughout the world for thousands of years and continue to provide mankind with new remedies. The use of plants as medicines has a long history in the treatment of various diseases. The plant-derived compounds have a long history of clinical use, better patient tolerance and acceptance. To date, 35,000-70,000 plant species have been screened for their medicinal use. The first commercial pure natural product introduced for therapeutic use is morphine marketed by Merck in 1826, and the first semi-synthetic pure drug aspirin, based on a natural product salicin isolated from <i>Salix alba</i>, was introduced by Bayer in 1899. This led to the isolation of early drugs such as cocaine, codeine, digitoxin, quinine and pilocarpine, of which some are still in use and several other recent plant derived compounds, which have undergone development and have been marketed as drugs which include Paclitaxel from <i>Taxus brevifolia</i> for lung, ovarian and breast cancer, Artemisinin from traditional Chinese plant <i>Artemisia annuato</i> to combat multidrug resistant malaria, Silymarin extracted from the seeds of <i>Silybum marianum</i> for the treatment of liver diseases.</p> <p>The SABs Selected plant-sourced compound Library, a unique collection of 1130 plant-sourced compounds that derived from 277 plant species, can be used for natural drug screening and new drug development</p>
Storage	<p>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</p>

Application Details

Number of Compounds: 1130

Product Description

A unique collection of 1130 plant-sourced compounds that derived from 277 plant species for high throughput screening (HTS) and high content screening (HCS); All are in preclinical or clinical research phases with the most research potential; Includes many popular natural products, such as Artemisinin, Ginsenoside, etc.; Structurally diverse, medicinally active, and cell permeable; Detailed compound information with structure, target, activity, IC50 value, and biological activity description; NMR and HPLC/LCMS validated to ensure high purity and quality;

Note: This product is for in vitro research use only