The Kinase Chemogenomic Set (KCGS)

Catalogue number: 157681
Sub-type:
Images:

Contributor

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Images:

Tool details

*FOR RESEARCH USE ONLY

Name: The Kinase Chemogenomic Set (KCGS)
Alternate name:

Class:
Conjugate:
Description: The Kinase Chemogenomic Set (KCGS) is a collection of narrow spectrum, small molecule kinase inhibitors that has been assembled by the SGC-UNC to study the biology of dark kinases. It is the most diverse and highly annotated, publicly-available collection of kinase inhibitors. Version 1.0 of the set contained 187 kinase inhibitors sourced from eight pharma companies and academic laboratories with potent activity on 215 human kinases. Version 2.0 has currently replaced version 1.0, it features 295 compounds in total and covers 262 kinases. Find out more on the release of KCGS v2.0 in this blog Sets like KCGS can help identify medically important kinases and allow the synthesis of high-quality chemical probes for high priority dark kinases of therapeutic interest. Dark kinases are those which are difficult to characterise, have little biological information gathered and their medical potential is unreached/untested. The goal of the KCGS is to generate, systematize and disseminate knowledge about dark kinases, biological networks in which they function and connections to cellular phenotypes and human disease. The KCGS aims to: (i) establish a knowledgebase covering the approximately 160 poorly understood dark kinases, (ii) distil primary data into functional biochemical and biological information and promote further research using genetic and chemical tools, which they are also developing and making available, (iii) place dark kinases within a new and emerging network-level understanding of cell signalling and physiology and (iv) identify those dark kinases whose mutation or mis-regulation is associated with human disease, making them possible therapeutic targets.

Purpose:
Parental cell:
Organism:
Tissue:
Target details

Target:

Target alternate names:

Target background:

Molecular weight:

IC50:

Applications

Application: The Kinase Chemogenomic Set (KCGS) can be used to study the biology of dark kinases from the human genome and uncover new molecular targets for drug discovery.

Application notes:

Handling

Format:
Concentration:
Passage number:
Growth medium:
Temperature:
Atmosphere:
Volume: 
Storage medium: 
Storage buffer: 
Storage conditions: -80°C 
Shipping conditions: Dry Ice

Related tools

Related tools:

References