SGC-CK2-1 biochemical

SGC-CK2-1

CATALOG #
AAA228460

PRODUCT SYNONYMS

SGC-CK2-1; SGC-CK2-1 biochemical

PRODUCT SPECIFICATIONS

Purity/Purification	98%
CAS	2470424-39-4
Targets&IC50	CK2alpha:36 nM (IC50), CK2alpha':16 nM (IC50)
Solubility	<1mg/ml refers to the product slightly soluble or insoluble
In vitro	SGC-CK2-1 inhibits CSNK2A2 and CSNK2A1 with IC50 values of 2.3 and 4.2 nM[1]. SGC-CK2-1 inhibits DYRK2 with the IC 50 value of 3.7 uM[1]. SGC-CK2-1 inhibits blood U-937, MV4-11, MOLM-13, OCI-LY19, OCI-AML5 cells with IC50s of 120, 690, 750, 760 and 810 nM, respectively. SGC-CK2-1 inhibits Head/Neck Detroit562 cells with an IC 50 of 550 nM. SGC-CK2-1 inhibits Lung NCI-H2286 cells with an IC 50 of 550 nM. SGC-CK2-1 inhibits Brain SK-N-MC cells with an IC 50 of 730 nM. SGC-CK2-1 inhibits Breast BT-20 cells with an IC 50 of 810 nM. SGC-CK2-1 inhibits Skin A375 cells with an IC 50 of 830 nM. SGC-CK2-1 inhibits Stomach SNU-1 cells with an IC 50 of 860 nM. SGC-CK2-1 inhibits DuodenuM/hutu 80 cells with an IC 50 of 920 nM[1].
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES

Structure
Bis-PEG6-t-butyl ester, CAS 439114-12-2

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ADDITIONAL INFORMATION

Related Product Information for SGC-CK2-1 biochemical	SGC-CK2-1 is a highly potent, ATP-competitive, and cell-active CK2 chemical probe with exclusive selectivity for both human CK2 isoforms, with IC 50 s of 36 and 16 nM for CK2alpha and CK2alpha?respectively in the nanoBRET assay. SGC-CK2-1 can be used for the research of neurodegenerative diseases.
References	1. An S, et al. Small-molecule PROTACs: An emerging and promising approach for the development of targeted therapy drugs. EBioMedicine. 2018 Oct;36:553-562

NCBI AND UNIPROT INFORMATION

Molecular Weight	450.569

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://www.aaabiotech.com/biochemical/sgc-ck2-1/228460