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Inhibitors, Agonists, Screening Libraries

SGK

Serum-glucocorticoid regulated kinase; Serum and glucocorticoid-regulated kinase

Serum- and glucocorticoid-inducible kinase (SGK) is a member of the Ser/Thr protein kinase family that regulates a variety of cell functions. SGK may regulate the cell cycle through the modulation of microtubule (MT) dynamics in tumor cells. SGK depolymerizes MTs through two distinct mechanisms both in vitro and in vivo. First, SGK directly depolymerizes MT independently of its kinase activity. Second, SGK depolymerizes MT through the phosphorylation of tau specifically at Ser214.

SGK is under regulation of several hormones, mediators and cell stressors. SGK is cloned as a gene up-regulated by serum and glucocorticoids in rat mammary tumor cells.

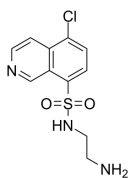
SGK is transcriptionally upregulated by mineralocorticoids and activated by insulin. The kinase enhances renal tubular Na⁺-reabsorption and accounts for blood pressure increase following high salt diet in mice made hyperinsulinemic by dietary fructose or fat.

SGK Inhibitors

CKI-7 free base

Cat. No.: HY-133028

CKI-7 free base is a potent and ATP-competitive **casein kinase 1 (CK1)** inhibitor with an IC_{50} of 6 μ M and a K_i of 8.5 μ M. CKI-7 free base is a selective **Cdc7 kinase** inhibitor.

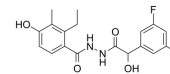


Purity: 99.31%
Clinical Data: No Development Reported
Size: 10 mM \times 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

EMD638683

Cat. No.: HY-15193

EMD638683 is a highly selective **SGK1** inhibitor, with an IC_{50} value of 3 μ M.

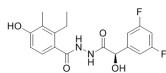


Purity: 99.74%
Clinical Data: No Development Reported
Size: 10 mM \times 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

EMD638683 R-Form

Cat. No.: HY-15193A

EMD638683 R-Form is the R-form of EMD638683. EMD638683 is a highly selective **SGK1** inhibitor with IC_{50} of 3 μ M.

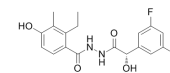


Purity: 99.68%
Clinical Data: No Development Reported
Size: 10 mM \times 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

EMD638683 S-Form

Cat. No.: HY-15193B

EMD638683 S-Form is the S-form of EMD638683. EMD638683 is a highly selective **SGK1** inhibitor with IC_{50} of 3 μ M.

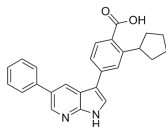


Purity: 98.30%
Clinical Data: No Development Reported
Size: 10 mM \times 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

GSK 650394

Cat. No.: HY-15192

GSK 650394 is a novel **SGK** inhibitor with IC_{50} of 62 nM and 103 nM for SGK1 and SGK2 in the SPA assay respectively. GSK 650394 also inhibits **influenza virus** replication.



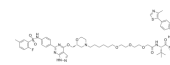
Purity: 99.76%
Clinical Data: No Development Reported
Size: 10 mM \times 1 mL, 5 mg, 10 mg, 50 mg

PROTAC SGK3 degrader-1

(SGK3-PROTAC1)

Cat. No.: HY-125878

PROTAC SGK3 degrader-1 (SGK3-PROTAC1), is a potent **SKG3** degrader based on **PROTAC**.

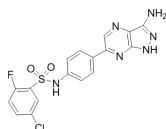


Purity: 98.83%
Clinical Data: No Development Reported
Size: 10 mM \times 1 mL, 1 mg, 5 mg, 10 mg

SGK1-IN-1

Cat. No.: HY-18607

SGK1-IN-1 is a highly active and selective inhibitor of **SGK-1**, with an IC_{50} of 1 nM.

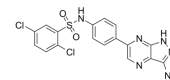


Purity: 98.76%
Clinical Data: No Development Reported
Size: 10 mM \times 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

SGK1-IN-2

Cat. No.: HY-135893

SGK1-IN-2 (14h) is a selective **SGK1 (serum and glucocorticoid regulated kinase 1)** inhibitor, with an IC_{50} of 5 nM at 10 μ M ATP concentration.



Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg