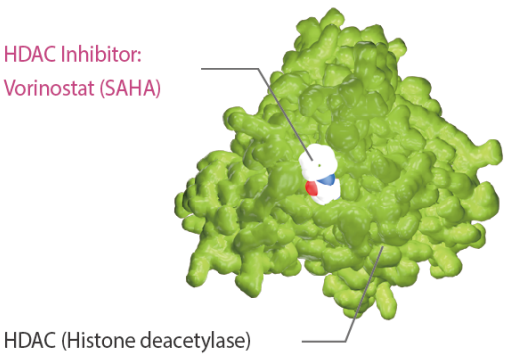
Glucokinase

Hexokinase IV;Hexokinase D



Glucokinase is an enzyme that facilitates phosphorylation of glucose to glucose-6-phosphate. Glucokinase occurs in cells in theliver, pancreas, gut, and brain of humans and most other vertebrates. In each of these organs it plays an important role in the regulation of carbohydrate metabolism by acting as a glucose sensor, triggering shifts in metabolism or cell function in response to rising or falling levels of glucose, such as occur after a meal or when fasting. Glucokinase has a lower affinity for glucose than the other hexokinases do, and its activity is localized to a few cell types, leaving the other three hexokinases as more important preparers of glucose for glycolysis and glycogen synthesis for most tissues and organs. Mutations of the gene for this enzyme can cause unusual forms of diabetes or hypoglycemia.

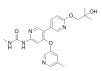
Glucokinase Inhibitors & Modulators

AM-2394

Cat. No.: HY-100221

Bioactivity: AM-2394 is a structurally distinct **glucokinase** activator (GKA). AM-2394 activates glucokinase (GK) with an EC_{50} of 60 nM.

Purity: 98.71%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

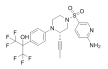


AMG-3969

Cat. No.: HY-12411

Bioactivity: AMG-3969 is a potent glucokinase-glucokinase regulatory protein interaction (**GK-GKRP**) disruptor with an IC_{50} of 4 nM.

Purity: 99.63%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg

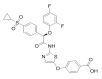


Glucokinase activator 1

Cat. No.: HY-101788

Bioactivity: Glucokinase activator 1 is a liver-directed **glucokinase** activator with an EC_{50} of 34 nM.

Purity: >98%
Clinical Data: No Development Reported
Size:

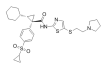


LY2608204

Cat. No.: HY-13529

Bioactivity: LY2608204 is a activator of glucokinase (GK) with EC50 of 42 nM.

Purity: 98.18%
Clinical Data: Phase 2
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg



Palmitelaidic Acid

(9-trans-Hexadecenoic acid; trans-Palmitoleic acid)

Cat. No.: HY-N2341

Bioactivity: Palmitelaidic acid is the trans isomer of palmitoleic acid. Palmitoleic acid is one of the most abundant fatty acids in serum and tissue.

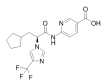
Purity: 98.00%
Clinical Data: No Development Reported
Size: 10 mg

PF-04991532

Cat. No.: HY-100181

Bioactivity: PF-04991532 is a potent, hepatoselective **glucokinase** activator with EC_{50}s of 80 and 100 nM in human and rat, respectively.

Purity: >98%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg

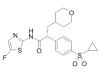


PSN-GK1

Cat. No.: HY-U00411

Bioactivity: PSN-GK1 is a potent **glucokinase** activator with an EC_{50} of 0.13 μM.

Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg, 20 mg



Ro 28-1675

Cat. No.: HY-10595

Bioactivity: Ro 28-1675 (Ro 0281675) is a potent allosteric GK activator with a SC1.5 value of 0.24± 0.0019 uM. IC50 value: 0.24± 0.0019 uM (SC1.5) [1] Target: Glucokinase activator The R stereoisomer Ro 28-1675 activated GK with a SC1.5 of 0.24 uM, while the S isomer did not activated GK up to 10 uM. Oral...

Purity: 99.41%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg