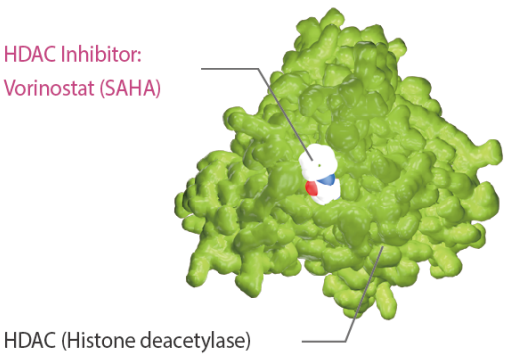
PDHK

Pyruvate dehydrogenase kinase;PDH kinase



Pyruvate dehydrogenase (PDH) is a mitochondrial multienzyme complex that catalyzes the oxidative decarboxylation of pyruvate and is one of the major enzymes responsible for the regulation of homeostasis of carbohydrate fuels in mammals. The enzymatic activity is regulated by a phosphorylation/dephosphorylation cycle. Phosphorylation of PDH by a specific pyruvate dehydrogenase kinase (PDH kinase; PDHK; PDK) results in inactivation. Multiple alternatively spliced transcript variants have been found for this gene. PDH catalyzes the conversion of pyruvate to acetyl-coenzyme A, which enters into the Krebs cycle, providing ATP to the cell. PDH activity is under the control of pyruvate dehydrogenase kinases (PDHKs).

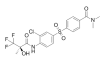
PDHK Inhibitors & Modulators

AZD7545

Cat. No.: HY-16082

Bioactivity: AZD7545 is a novel, selective small-molecule inhibitor of PDHK2 (PDH kinase2) with an IC50 of 36.8 nM and 6.4 nM for PDHK1 and PDHK2 respectively.

Purity: 99.84%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
5 mg, 10 mg, 50 mg, 100 mg



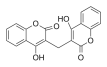
Dicoumarol

(Dicumarol)

Cat. No.: HY-N0645

Bioactivity: Dicoumarol is an inhibitor of both **NAD(P)H:quinone oxidoreductase 1** (**NQO1**) and **PDK1** with **IC_{50}**s of 0.37 and 19.42 μM, respectively.

Purity: 98.70%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
100 mg

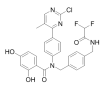


VER-246608

Cat. No.: HY-12492

Bioactivity: VER-246608 is a potent and ATP-competitive inhibitor of **pyruvate dehydrogenase kinase** (**PDK**) with **IC_{50}**s of 35 nM, 40 nM, 84 nM, and 91 nM for **PDK-1**, **PDK-3**, **PDK-2**, and **PDK-4**, respectively.

Purity: 99.03%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
1 mg, 5 mg, 10 mg, 50 mg, 100 mg



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