

Product Name : Vericiguat

Synonyms : —

**Cat No.** : M21837

**CAS Number** : 1350653-20-1

Molecular Formula : C19H16F2N8O2

Formula Weight : 426.38

Chemical Name : ----

Vericiguat (0.01  $\mu$ M to 100  $\mu$ M) stimulates recombinant sGC concentration dependently, by 1.7-fold to 57.6-fold. When combined with the NO donor diethylamine/nitric oxide complex (DEA/NO), vericiguat and DEA/NO have a synergistic effect on the enzyme activity over a wide range of concentrations. At highest concentrations of vericiguat (100  $\mu$ M) and DEA/NO

Description (100 nM), the specific activity of sGC is 341.6-fold above baseline. Vericiguat stimulates the sGC reporter cell line

concentration dependently, with an EC50 of 1005±145 nM. Vericiguat inhibits phenylephrine-induced contractions of rabbit saphenous artery rings, rabbit aortic rings, and canine femoral vein rings concentration dependently, with IC50 values of 798, 692, and 3072 nM, respectively. Vericiguat inhibits the U46619-induced contractions of porcine coronary artery rings

concentration dependently, with an IC50 of 956 nM.

Pathway : Metabolic Enzyme/Protease

Target : Guanylate Cyclase

Receptor : —

Solubility : DMSO: 60 mg/mL (140.72 mM; Need ultrasonic): H2O: < 0.1 mg/mL (insoluble)

**SMILES** : O=C(OC)NC1=C(N)N=C(C2=NN(CC3=CC=C3F)C4=NC=C(F)C=C42)N=C1N

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Follmann M, et al. Discovery of the Soluble Guanylate Cyclase Stimulator Vericiguat (BAY 1021189) for the Treatment of Chronic Heart Failure. J Med Chem. 2017 Jun 22;60(12):5146-5161.