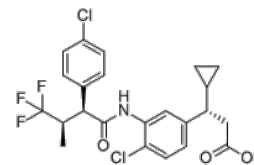


Product Name : Runcaciguat
Cat. No. : PC-36097
CAS No. : 1402936-61-1
Molecular Formula : C₂₃H₂₂Cl₂F₃NO₃
Molecular Weight : 488.328
Target : Guanylate Cyclase
Solubility : 10 mM in DMSO



Biological Activity

Runcaciguat (BAY1101042) is a potent, selective **soluble guanylyl cyclase (sGC)** stimulator/activator with EC₅₀ of 6 nM in cGMP formation assay with sGC-overexpressing CHO cell.

Runcaciguat (BAY1101042) binds and activates oxidized and heme-free sGC and thereby restores NO-sGC-cGMP signaling under oxidative stress.

Runcaciguat (BAY1101042) potently and selectively activates the heme-free form of sGC, resulting in the typical profile of an sGC activator in preclinical experiments, both in vitro and in vivo.

References

- PCT Int. Appl. (2018), WO 2018153899 A1 20180830.
- PCT Int. Appl. (2012), WO 2012139888 A1 20121018.
- Hahn MG, et al. *J Med Chem.* 2021 May 13;64(9):5323-5344.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com