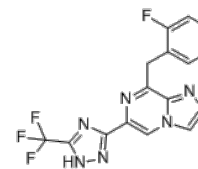


**Product Name** : Zagociguat  
**Cat. No.** : PC-73456  
**CAS No.** : 2201048-82-8  
**Molecular Formula** : C<sub>16</sub>H<sub>10</sub>F<sub>4</sub>N<sub>6</sub>  
**Molecular Weight** : 362.292  
**Target** : Guanylate Cyclase  
**Solubility** : 10 mM in DMSO



1. Correia SS, et al. *Front Pharmacol.* 2021 May 24;12:656561.

## Biological Activity

Zagociguat (CY6463) is a potent, selective, brain-penetrant and orally-active soluble guanylate cyclase (**sGC**) activator with EC<sub>50</sub> of 66 nM in cell-based cGMP assays.

Zagociguat (CY6463) stimulates the phosphorylation of CREB in a concentration-dependent fashion in rat primary neurons with EC<sub>50</sub> of 25.7 nM.

Zagociguat (CY6463) elicits decreases in blood pressure in both rats and mice.

Zagociguat (CY6463) improves cognitive performance in a model of cognitive disruption induced by the administration of a noncompetitive N-methyl-D-aspartate (NMDA) receptor antagonist.

Zagociguat (CY6463) increases long-term potentiation (LTP) in hippocampal slices from a Huntington's disease mouse model and decreases the loss of dendritic spines in aged and Alzheimer's disease mouse models.

## References

