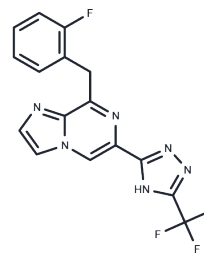


## Zagociguat

## Chemical Properties

CAS No. :	2201048-82-8
Formula:	C <sub>16</sub> H <sub>10</sub> F <sub>4</sub> N <sub>6</sub>
Molecular Weight:	362.28
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Zagociguat (CY6463) is a soluble guanylate cyclase stimulator with central nervous system penetrance, enhancing nitric oxide (NO) signaling and used in the study of neurological diseases.
Targets(IC50)	NO Synthase, Guanylate cyclase, Interleukin
In vitro	CREB phosphorylation was stimulated by Zagociguat in a concentration-dependent manner in primary rat neurons with EC <sub>50</sub> of 25.7 nM. [1]
In vivo	When Zagociguat was administered to rats at 10 mg/kg, cGMP levels were higher in cerebrospinal fluid compared to 3 mg/kg, suggesting that Zagociguat is a CNS permeable compound capable of triggering an increase in cGMP in the CNS. Zagociguat (10 mg/kg) decreased plasma inflammatory markers and increased BDNF in obese mice. [1]

## Solubility Information

Solubility	DMSO: 200 mg/mL (552.06 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

### Preparing Stock Solutions

---

	1mg	5mg	10mg
1 mM	2.7603 mL	13.8015 mL	27.603 mL
5 mM	0.5521 mL	2.7603 mL	5.5206 mL
10 mM	0.276 mL	1.3801 mL	2.7603 mL
50 mM	0.0552 mL	0.276 mL	0.5521 mL

---

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Correia SS, et al. The CNS-Penetrant Soluble Guanylate Cyclase Stimulator CY6463 Reveals its Therapeutic Potential in Neurodegenerative Diseases. *Front Pharmacol.* 2021 May 24;12:656561.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481