## GLX351322

Cat. No.:	HY-100111			
CAS No.:	835598-94-2			
Molecular Formula:	C <sub>21</sub> H <sub>25</sub> N <sub>3</sub> O <sub>5</sub> S			
Molecular Weight:	431.51			
Target:	NADPH Oxidase			
Pathway:	Metabolic Enzyme/Protease			
Storage:	Powder	-20°C	3 years	
	In solvent	-80°C	2 years	
		-20°C	1 year	

®

MedChemExpress

### SOLVENT & SOLUBILITY

Prep Stoc	DMSO : 20 mg/mL (46.	Solvent Mass Concentration	1 mg	5 mg	10 mg			
		1 mM	2.3174 mL	11.5872 mL	23.1744 mL			
		5 mM	0.4635 mL	2.3174 mL	4.6349 mL			
		10 mM	0.2317 mL	1.1587 mL	2.3174 mL			
	Please refer to the so	Please refer to the solubility information to select the appropriate solvent.						
In Vivo		1. Add each solvent one by one: 50% PEG300 >> 50% saline Solubility: 25 mg/mL (57.94 mM); Suspended solution; Need ultrasonic						
		2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.08 mg/mL (4.82 mM); Suspended solution; Need ultrasonic						
		3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.82 mM); Clear solution						

BIOLOGICAL ACTIVITY				
Description	GLX351322 is an inhibitor of NADPH oxidase 4 (Nox4), and inhibits hydrogen peroxide production from NOX4-overexpressing cells with an IC <sub>50</sub> of 5 μM.			
IC <sub>50</sub> & Target	NOX4			
In Vitro	GLX351322 is an inhibitor of NADPH oxidase 4, and inhibits hydrogen peroxide production from NOX4-overexpressing cells with an IC <sub>50</sub> of 5 μM. GLX351322 shows weak activity against NOX2 in hPBMC cells (IC <sub>50</sub> , 40 μM). MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

# Product Data Sheet

-NH

GLX351322 (3.8 mg/kg/day, p.o.) ameliorates HFD-induced hyperglycemia in mice<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### **CUSTOMER VALIDATION**

- Alzheimers Dement. 2020;16(Suppl. 3):e038198.
- Cell Mol Biol Lett. 2023 Mar 23;28(1):24.
- Int J Biol Macromol. 2021 Jul 23;S0141-8130(21)01587-7.
- Free Radic Biol Med. 2023 Jul 27;S0891-5849(23)00548-8.
- Free Radic Biol Med. 2022 Nov 10;193(Pt 2):595-609.

See more customer validations on www.MedChemExpress.com

#### REFERENCES

[1]. Anvari E, et al. The novel NADPH oxidase 4 inhibitor GLX351322 counteracts glucose intolerance in high-fat diet-treated C57BL/6 mice. Free Radic Res. 2015;49(11):1308-18.

Caution: Product has not been fully validated for medical applications. For research use only.

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA