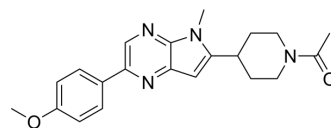


Gcase activator 2

Cat. No.:	HY-154823		
CAS No.:	2759897-35-1		
Molecular Formula:	C ₂₁ H ₂₄ N ₄ O ₂		
Molecular Weight:	364.44		
Target:	Glucosidase		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (274.39 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.7439 mL	13.7197 mL	27.4394 mL
		5 mM	0.5488 mL	2.7439 mL	5.4879 mL
10 mM		0.2744 mL	1.3720 mL	2.7439 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (6.86 mM); Clear solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (6.86 mM); Clear solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (6.86 mM); Clear solution; Need ultrasonic 				

BIOLOGICAL ACTIVITY

Description	Gcase activator 2 (compound 14), a pyrrolo[2,3-b]pyrazine, is also a β-Glucocerebrosidase (GCCase) activator (EC ₅₀ =3.8 μM). Gcase activator 2 induces GCCase dimerization (both K-type and V-type). And Gcase activator 2 has low metabolic clearance in human and mouse ^[1] .
IC₅₀ & Target	β-Glucocerebrosidase ^[1]
In Vitro	Gcase activator 2 has low metabolic clearance in human and mouse with CL values of 10 and 12 μL/min/mg, respectively ^[1] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Benz J, et al. Novel β -Glucocerebrosidase Activators That Bind to a New Pocket at a Dimer Interface and Induce Dimerization. *Angew Chem Int Ed Engl.* 2021 Mar 1;60(10):5436-5442.
- [2]. Benz J, et al. Novel β -Glucocerebrosidase Activators That Bind to a New Pocket at a Dimer Interface and Induce Dimerization. *Angew Chem Int Ed Engl.* 2021 Mar 1;60(10):5436-5442.
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Caution: Product has not been fully validated for medical applications. For research use only.

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