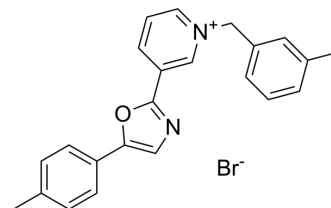


## AMPK activator 13

Cat. No.:	HY-155363		
Molecular Formula:	C <sub>23</sub> H <sub>21</sub> BrN <sub>2</sub> O		
Molecular Weight:	421.33		
Target:	AMPK		
Pathway:	Epigenetics; PI3K/Akt/mTOR		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 25 mg/mL (59.34 mM); ultrasonic and warming and heat to 60°C

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.3734 mL	11.8672 mL	23.7344 mL
	5 mM	0.4747 mL	2.3734 mL	4.7469 mL
	10 mM	0.2373 mL	1.1867 mL	2.3734 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (5.93 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (5.93 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

AMPK activator 13 is a potent activator of AMPK. AMPK activator 13 inhibits mitotic clonal expansion of 3T3-L1 cells by activating AMPK pathway and enhances cell mitochondrial oxygen consumption rate. AMPK activator 13 can be used in study obesity<sup>[1]</sup>.

### REFERENCES

- [1]. Mishra T, et al. Anti-adipogenic action of a novel oxazole derivative through activation of AMPK pathway. Eur J Med Chem. 2023 Oct 20;262:115895.

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

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