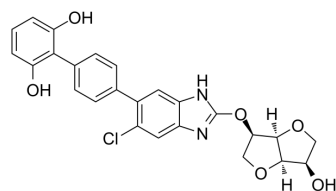


## AMPK activator 8

Cat. No.:	HY-147038
CAS No.:	1852451-96-7
Molecular Formula:	C <sub>25</sub> H <sub>21</sub> ClN <sub>2</sub> O <sub>6</sub>
Molecular Weight:	480.9
Target:	AMPK
Pathway:	Epigenetics; PI3K/Akt/mTOR
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	AMPK activator 8 (compound 2) is an AMP-activated protein kinase (AMPK) activator with EC <sub>50</sub> s of 11, 27, 4, 2, and 4 nM for rAMPK α1β1γ1, rAMPK α2β1γ1, rAMPK α1β2γ1, rAMPK α2β2γ1, rAMPK α2β2γ3, respectively. AMPK activator 8 can be used for the research of type 2 diabetes <sup>[1]</sup> .											
<b>IC<sub>50</sub> &amp; Target</b>	AMPK α1β1γ1 11 nM (EC <sub>50</sub> )	AMPK α2β1γ1 27 nM (EC <sub>50</sub> )	AMPK α1β2γ1 4 nM (EC <sub>50</sub> )	AMPK α2β2γ1 2 nM (EC <sub>50</sub> )								
<b>In Vitro</b>	<p>AMPK activator 8 (compound 2) acts on rAMPK α1β1γ1, rAMPK α2β1γ1, rAMPK α1β1γ1, rAMPK α1β2γ1, rAMPK α2β2γ and rAMPK α2β2γ3 with the EC<sub>50</sub> value of 11 nM, 27 nM, 4 nM, 2 nM and 4 nM, respectively<sup>[1]</sup>.</p> <p>AMPK activator 8 (compound 2) affects cell viability<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay<sup>[1]</sup></p> <table border="1"> <tr> <td>Cell Line:</td> <td>HepG2, C2C12 myoblasts</td> </tr> <tr> <td>Concentration:</td> <td>0.01-1000 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>1 hour</td> </tr> <tr> <td>Result:</td> <td>Resulted in HepG2 and C2C12 myoblasts with the EC<sub>50</sub> value of 255 nM and 230 nM, respectively.</td> </tr> </table>				Cell Line:	HepG2, C2C12 myoblasts	Concentration:	0.01-1000 μM	Incubation Time:	1 hour	Result:	Resulted in HepG2 and C2C12 myoblasts with the EC <sub>50</sub> value of 255 nM and 230 nM, respectively.
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### REFERENCES

[1]. Mathilde Muzerelle, et al. Novel activators of amp-activated protein kinases.WO2016001224A1

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**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](mailto:tech@MedChemExpress.com)

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