



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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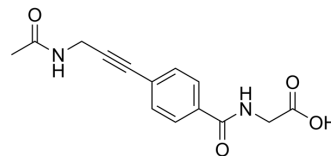
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AACA

Cat. No.:	HY-163513
CAS No.:	2515609-54-6
Molecular Formula:	C ₁₄ H ₁₄ N ₂ O ₄
Molecular Weight:	274.27
Target:	Wnt
Pathway:	Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	AACA is an inhibitor for sclerostin, that binds sclerostin on loop3 region with K _d of 15.4 nM. AACA exhibits anti-osteoporosis activity through Wnt signaling pathway ^[1] .								
In Vitro	<p>AACA (10 μM, 12 h) promotes the Wnt signaling pathway, which is suppressed by sclerostin, upregulates the expressions of the bone formation markers^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Real Time qPCR^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>MC3T3-E1</td> </tr> <tr> <td>Concentration:</td> <td>10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>12 h</td> </tr> <tr> <td>Result:</td> <td>Upregulated mRNA levels of bone formation markers ALP and OCN.</td> </tr> </table>	Cell Line:	MC3T3-E1	Concentration:	10 μM	Incubation Time:	12 h	Result:	Upregulated mRNA levels of bone formation markers ALP and OCN.
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REFERENCES

[1]. Yu S, et al., Discovery of the small molecular inhibitors against sclerostin loop3 as potential anti-osteoporosis agents by structural based virtual screening and molecular design. Eur J Med Chem. 2024 Apr 16;271:116414.

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

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