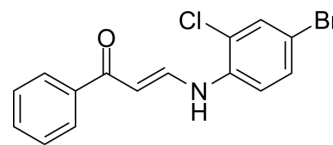


SMI 6860766

Cat. No.:	HY-125025
CAS No.:	433234-16-3
Molecular Formula:	C ₁₅ H ₁₁ BrClNO
Molecular Weight:	336.61
Target:	TNF Receptor
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	SMI 6860766, a small molecule inhibitor of CD40-TRAF6 interaction, improves glucose tolerance, reduces immune cell accumulation in adipose tissue, and reduces AT inflammation ^[1] .									
In Vitro	<p>SMI 6860766 (0-100 μM; 1 h) dose-dependently suppresses CD40-induced gene expression of IL-1β and IL-6 cytokines in BM-derived macrophages^[1].</p> <p>SMI 6860766 reduces the levels of CCL2 in CD40+/+, CD40-Twt and CD40-TRAF2/3/5-/- macrophages^[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>BM-derived macrophages</td> </tr> <tr> <td>Concentration:</td> <td>0.001, 0.01, 0.1, 1, 10, 100 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>1 h</td> </tr> <tr> <td>Result:</td> <td>Dose-dependently suppressed CD40-induced gene expression of IL-1β and IL-6 cytokines in BM-derived macrophages.</td> </tr> </table>		Cell Line:	BM-derived macrophages	Concentration:	0.001, 0.01, 0.1, 1, 10, 100 μM	Incubation Time:	1 h	Result:	Dose-dependently suppressed CD40-induced gene expression of IL-1β and IL-6 cytokines in BM-derived macrophages.
Cell Line:	BM-derived macrophages									
Concentration:	0.001, 0.01, 0.1, 1, 10, 100 μM									
Incubation Time:	1 h									
Result:	Dose-dependently suppressed CD40-induced gene expression of IL-1β and IL-6 cytokines in BM-derived macrophages.									
In Vivo	<p>SMI 6860766 increases the number of adipocytes per field of view by 15.3% in mouse EpAT, indicating that SMI reduces adipocyte size, indicating reduces lipid storage and improves metabolic function^[1].</p> <p>SMI 6860766 reduces the number of total leukocytes (CD45+ cells) in mouse EpAT by 68.5%^[1].</p> <p>SMI 6860766 does not induce differences in hepatosteatosis^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>									

REFERENCES

[1]. Van den Berg SM, et al. Blocking CD40-TRAF6 interactions by small-molecule inhibitor 6860766 ameliorates the complications of diet-induced obesity in mice. *Int J Obes (Lond)*. 2015 May;39(5):782-90.

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

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