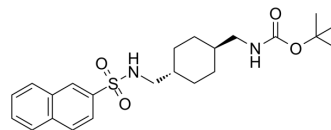


hACC2-IN-1

Cat. No.:	HY-147376
CAS No.:	192323-14-1
Molecular Formula:	C ₂₃ H ₃₂ N ₂ O ₄ S
Molecular Weight:	432.58
Target:	Acetyl-CoA Carboxylase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	hACC2-IN-1 is a potent acetyl-CoA carboxylase 2 (ACC2) inhibitor, with an IC ₅₀ value of 2.5 μM (hACC2). hACC2-IN-1 could be used for obesity research ^[1] .
IC₅₀ & Target	hACC2 2.5 μM (IC ₅₀)
In Vitro	ACC2 isoform, presents on the mitochondrial surface, inhibits carnitine palmitoyl transferase 1 (CPT-1) and converts acetyl-CoA into malonylCoA for de novo lipogenesis in the cytosol ^[1] . ACCs inhibition will change cellular substrate and favour lipid oxidation, thus preventing deleterious lipids from accumulating in oxidative tissue such as muscle, heart and liver ^[1] . hACC2-IN-1 shows good potency against the human ACC2 (hACC2) enzyme ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Bengtsson C, et al. Design of small molecule inhibitors of acetyl-CoA carboxylase 1 and 2 showing reduction of hepatic malonyl-CoA levels in vivo in obese Zucker rats. *Bioorg Med Chem*. 2011 May 15;19(10):3039-53.

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

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