

Product Data Sheet

Product Name: hACC2-IN-1

Cat. No.: GC27869

Chemical Properties

Cas. No. 192323-14-1

Chemical Name Carbamic acid, N-[[trans-4-[[[(2-naphthalenylsulfonyl)amino]methyl]cyclohexyl]methyl]-, 1,1-dimethylethyl ester

SMILES CC(C)(OC(=O)NC[C@H]1CC[C@@H](CC1)NS(=O)(=O)C2=CC3=C(C=CC=C3)C=C2=O)C

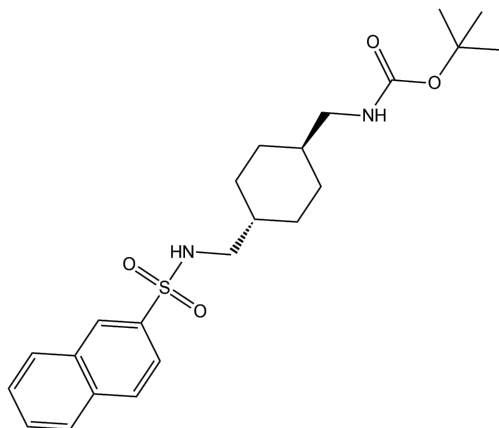
Formula $C_{23}H_{32}N_2O_4S$ M.Wt 432.58

Solubility DMSO : 100 mg/mL (231.17 mM; Need ultrasonic) Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

hACC2-IN-1 is a potent acetyl-CoA carboxylase 2 (ACC2) inhibitor, with an IC_{50} value of $2.5\ \mu\text{M}$

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

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(hACC2). hACC2-IN-1 could be used for obesity research^[1].

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].

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.

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