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Zuschläge

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1,1'-(Azodicarbonyl)-dipiperidine

Cat. No.: HY-Y1624

CAS No.: 10465-81-3

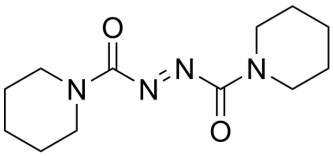
Molecular Formula: $C_{12}H_{20}N_4O_2$

Molecular Weight: 252.31

Target: Free Fatty Acid Receptor; PPAR

Pathway: GPCR/G Protein; Cell Cycle/DNA Damage; Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	1,1'-(Azodicarbonyl)-dipiperidine (ADDP) can be used in the condensation reaction of alcohols with acidic compounds. 1,1'-(Azodicarbonyl)-dipiperidine can also be used in the synthesis of GPR120 agonists with antidiabetic activity, as well as the synthesis of triple agonists for PPARα, PPARγ, and PPARδ. 1,1'-(Azodicarbonyl)-dipiperidine can be used in metabolic disease research[1][2][3][4].		
IC_{50} & Target	PPARα	PPAR-γ	PPARδ

REFERENCES

[1]. Tsunoda T, et al. 1, 1'-(azodicarbonyl) dipiperidine-tributylphosphine, a new reagent system for mitsunobu reaction[J]. Tetrahedron letters, 1993, 34(10): 1639-1642.

[2]. Hirose D, et al. Systematic Evaluation of 2-Arylazocarboxylates and 2-Arylazocarboxamides as Mitsunobu Reagents. J Org Chem. 2018 Apr 20;83(8):4712-4729.

[3]. Zhang X, et al. Design, synthesis and SAR of a novel series of heterocyclic phenylpropanoic acids as GPR120 agonists. Bioorg Med Chem Lett. 2017 Aug 1;27(15):3272-3278.

[4]. Mogensen JP, et al. Design and synthesis of novel PPARalpha/gamma/delta triple activators using a known PPARalpha/gamma dual activator as structural template. Bioorg Med Chem Lett. 2003 Jan 20;13(2):257-60.

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