

IRW

## Chemical Properties

CAS No. :	159718-10-2
Formula:	C23H35N7O4
Molecular Weight:	473.58
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	IRW is an orally active tripeptide extracted from egg whites with angiotensin-converting enzyme (ACE) inhibitory properties. It helps prevent non-alcoholic fatty liver disease (NAFLD) induced by a high-fat diet (HFD) through the regulation of hepatic lipid metabolism and increased mitochondrial content. IRW reduces hepatic triglyceride levels and lipid droplet size, and enhances liver mitochondrial complexes, citrate synthase activity, and 5'-AMP-activated protein kinase phosphorylation, along with the abundance of microsomal triglyceride transfer protein. It also increases phosphorylated acetyl CoA carboxylase and mitochondrial complexes, making it useful for inflammation-related research.
Targets(IC50)	Acetyl-CoA Carboxylase, Mitochondrial Metabolism, Angiotensin-converting Enzyme (ACE)
In vivo	IRW at a dosage of 45 mg/kg orally once daily for 8 weeks can prevent non-alcoholic fatty liver disease (NAFLD) induced by a high-fat diet (HFD) in C57BL/6 mice.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1116 mL	10.5579 mL	21.1158 mL
5 mM	0.4223 mL	2.1116 mL	4.2232 mL
10 mM	0.2112 mL	1.0558 mL	2.1116 mL
50 mM	0.0422 mL	0.2112 mL	0.4223 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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