Hello Bio, Inc. 304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500 F. 609-228-4994

customercare-usa@hellobio.com



# **DATASHEET**

Lac-Phe

#### **Product overview**

Name Lac-Phe
Cat No HB8782
Alternative names N-I-lactoyl-Phe
Biological action Metabolite
Purity >99%

**Description** Exercise induced metabolite that suppresses food intake and obesity

### **Images**



#### **Biological Data**

**Biological description** 

L-lactate-derived metabolite which is upregulated following exercise. Recently shown to reduce food intake by ~50% in diet-induced obese (DIO) mice, without affecting movement or energy expenditure. Decreases body weight, adiposity and improves glucose homeostasis when chronically administered.

## Solubility & Handling

Solubility overview Storage instructions Storage of solutions

**Shipping Conditions** 

**Important** 

Soluble in water (50 mM), and in DMSO (100 mM)

Room temperature

Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

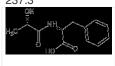
Stable for ambient temperature shipping. Follow storage instructions on receipt.

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use

**Chemical Data** 

Chemical name Molecular Weight Chemical structure (2S)-2-[(2S)-2-hydroxypropanamido]-3-phenylpropanoic acid



**Source** Synthetic

InChi InChi=1S/C12H15NO4/c1-8(14)11(15)13-10(12(16)17)7-9-5-3-2-4-6-9/h2-6,8,10,14H,7H2,1H3,(H,1

3,15)(H,16,17)/t8-,10-/m0/s1

Appearance White solid

#### References

An exercise-inducible metabolite that suppresses feeding and obesity.

Li VL et al (2022) Nature 606

PubMedID 35705806

N-lactoyl-amino acids are ubiquitous metabolites that originate from CNDP2-mediated reverse proteolysis of lactate and amino acids.

Jansen RS et al (2015) Proceedings of the National Academy of Sciences of the United States of America 112

**PubMedID** 25964343