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## DATASHEET

Lac-Phe

### Product overview

<b>Name</b>	Lac-Phe
<b>Cat No</b>	HB8782
<b>Alternative names</b>	N-l-lactoyl-Phe
<b>Biological action</b>	Metabolite
<b>Purity</b>	>99%
<b>Description</b>	Exercise induced metabolite that supresses food intake and obesity

### Images



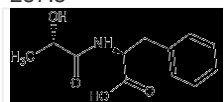
### Biological Data

<b>Biological description</b>	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.
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### Solubility & Handling

<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	Soluble in water (50 mM), and in DMSO (100 mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

### Chemical Data

<b>Chemical name</b>	(2S)-2-[(2S)-2-hydroxypropanamido]-3-phenylpropanoic acid
<b>Molecular Weight</b>	237.3
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>12</sub> H <sub>15</sub> NO <sub>4</sub>
<b>CAS Number</b>	183241-73-8
<b>PubChem identifier</b>	69759947

<b>SMILES</b>	<chem>C[C@H](O)C(=O)N[C@@H](Cc1ccccc1)C(=O)O</chem>
<b>Source</b>	Synthetic
<b>InChi</b>	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,13,15)(H,16,17)/t8-,10-/m0/s1
<b>Appearance</b>	White solid

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## 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](#)

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