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DATASHEET

Lac-Phe-d5 (N-lactoyl-phenylalanine-d5)

Product overview

Name	Lac-Phe-d5 (N-lactoyl-phenylalanine-d5)
Cat No	HB7279
Biological action	Metabolite
Purity	>97%
Description	Deuterated Lac-Phe (N-lactoyl-phenylalanine)

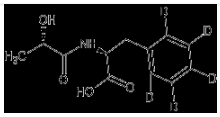
Biological Data

Biological description	Deuterated Lac-Phe (N-lactoyl-phenylalanine). Lac-Phe is an exercise induced metabolite that supresses food intake and obesity.

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in water (50 mM), and in DMSO (100 mM)
Important	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	(2S)-2-[(2S)-2-hydroxypropanamido]-3-(d5)phenylpropanoic acid
Molecular Weight	242.3
Chemical structure	
Molecular Formula	$C_{12}H_{10}D_5NO_4$
SMILES	[2H]c1c(C[C@H](NC(=O)[C@H](C)O)C(=O)O)c([2H])c([2H])c([2H])c1[2H]
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,13,15)(H,16,17)/t8-,10-/m0/s1/i2D,3D,4D,5D,6D
Appearance	White solid

References

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

An exercise-inducible metabolite that suppresses feeding and obesity.

Li VL et al (2022) Nature 606

PubMedID 35705806