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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)

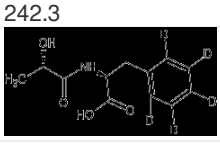
Biological Data

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

Solubility & Handling

Solubility overview	Soluble in water (50 mM), and in DMSO (100 mM)
Storage instructions	Room temperature
Storage of solutions	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.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.
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