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DATASHEET

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

Product overview

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

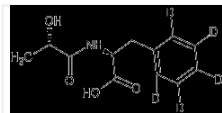
Biological Data

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|-------------------------------|--|
| Biological description | Deuterated Lac-Phe (N-lactoyl-phenylalanine) . Lac-Phe is an exercise induced metabolite that suppresses food intake and obesity. |
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Solubility & Handling

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| 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

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|---------------------------|--|
| Chemical name | (2S)-2-[(2S)-2-hydroxypropanamido]-3-(d5)phenylpropanoic acid |
| Molecular Weight | 242.3 |
| Chemical structure |  |
| Molecular Formula | C ₁₂ H ₁₀ D ₅ NO 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 CNBP2-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

