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## Product Datasheet

### **Lactoyl phenylalanine, CAS [[183241-73-8]] FBM-10-5713**

|                            |  |
|----------------------------|--|
| Article Name               | Lactoyl phenylalanine, CAS [[183241-73-8]] |
| Biozol Catalog Number      | FBM-10-5713                                |
| Supplier Catalog Number    | 10-5713                                    |
| Alternative Catalog Number | FBM-10-5713-5MG, FBM-10-5713-25MG          |
| Manufacturer               | Focus Biomolecules                         |
| Category                   | Biochemikalien                             |
| Product Description        | Anorexigenic circulating metabolite...     |
| Molecular Weight           | 237.26                                     |
| Purity                     | >98% by HPLC NMR (Conforms)                |
| Form                       | White solid                                |
| CAS Number                 | [183241-73-8]                              |
| Formula                    | C12H15NO4                                  |

Application Notes

Exercise is associated with transient suppression of appetite which previously has been attributed to induction of appetite-regulatory hormone such as GLP-11 or the increase in circulating metabolites including L-lactate<sup>2</sup>. A targeted metabolomics approach with blood samples from two independent human exercise studies resulted in the identification of N-lactoyl-phenylalanine (Lac-Phe, 183241-73-8) as a highly upregulated circulating metabolite following exercise.<sup>3</sup> Lac-Phe was shown, using pharmacological and genetic methods, to be an exercise-inducible metabolite that suppresses feeding and obesity. A single injection of Lac-Phe was demonstrated to reduce food intake by ~50% in diet-induced obese mice. However, Lac-Phe is completely inactive when administered orally.<sup>4</sup>