

# RESEARCH GUIDE

## Semaglutide

Synthetic peptide (31 amino acids)

### OVERVIEW

Semaglutide is a synthetic peptide composed of 31 amino acids. It is supplied as a lyophilised peptide reference material and is handled in in vitro and preclinical laboratory research contexts.

BATCH VERIFICATION

HW251112-1  
<https://mypepbiotech.co.uk/quality-assurance/?batch=HW251112-1>

### CHEMICAL INFORMATION

|                   |                   |
|-------------------|-------------------|
| Product name      | Semaglutide       |
| Classification    | Synthetic peptide |
| CAS number        | 910463-68-2       |
| Molecular formula | C187H291N45O59    |
| Molecular weight  | 4113.58           |
| Appearance        | White powder      |
| Solubility        | Soluble in water  |

### LABORATORY RESEARCH CONTEXT

This material is supplied strictly as a reference compound for laboratory research. It is intended for use by qualified personnel in an appropriately equipped research environment for in vitro and other non-clinical investigations. Nothing in this guide describes or implies any medical, therapeutic, diagnostic or performance use, and no such use is intended or supported.

### RECONSTITUTION (LABORATORY USE)

For laboratory use the lyophilised peptide is commonly reconstituted with sterile or bacteriostatic water. Add the solvent slowly down the inside wall of the vial, allow the peptide to dissolve without agitation, and swirl gently. Do not shake.

### STORAGE GUIDANCE

Store the sealed vial in a cool, dry place away from strong light and heat. For long-term storage, -20°C is recommended. Once reconstituted, keep solutions refrigerated (2–8°C) and use within your laboratory's validated timeframe.

### HANDLING GUIDANCE

Wear appropriate personal protective equipment (gloves, laboratory coat, eye protection). Avoid inhalation, ingestion and contact with skin and eyes. Handle in a clean, well-ventilated laboratory area, keep away from food and drink, and wash hands thoroughly after handling.

**Batch traceability.** Every vial is supplied with a unique batch number. Retain your batch number and confirm the matching branded Certificate of Analysis at

**Research Use Only.** This product is intended solely for laboratory research purposes. It is not a medicine or supplement and is not intended for diagnostic, therapeutic, or any human or veterinary use.