



# SZABO SCANDIC

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## Produktinformation



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- Expressversand

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# PRODUCT INFORMATION



## Cagrilintide (acetate)

Item No. 41329

**Formal Name:** N-(19-carboxy-1-oxononadecyl)-L-γ-glutamyl-L-lysyl-L-cysteinyl-L-asparaginyl-L-threonyl-L-alanyl-L-threonyl-L-cysteinyl-L-alanyl-L-threonyl-L-glutamyl-L-arginyl-L-leucyl-L-alanyl-L-α-glutamyl-L-phenylalanyl-L-leucyl-L-arginyl-L-histidyl-L-seryl-L-seryl-L-asparaginyl-L-asparaginyl-L-phenylalanylglycyl-L-prolyl-L-isoleucyl-L-leucyl-L-prolyl-L-prolyl-L-threonyl-L-asparaginyl-L-valylglycyl-L-seryl-L-asparaginyl-L-threonyl-L-prolinamide, cyclic (3→8)-disulfide, acetate salt

**Synonyms:** AM833, NN0174-0833

**Peptide Sequence:** (Eicosanedioic acid-γ-Glu)-KCNTATCATQRLAEFLRHSSNNFGPILPPTNVGSNTP-NH<sub>2</sub>

**MF:** C<sub>194</sub>H<sub>312</sub>N<sub>54</sub>O<sub>59</sub>S<sub>2</sub> • XC<sub>2</sub>H<sub>4</sub>O<sub>2</sub>

**FW:** 4,409.1

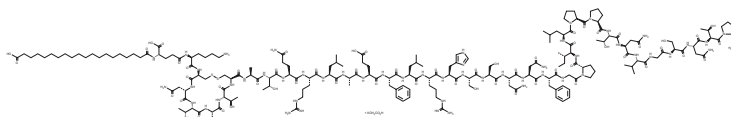
**Purity:** ≥98%

**Supplied as:** A solid

**Storage:** -20°C

**Stability:** ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.



### Laboratory Procedures

Cagrilintide (acetate) is supplied as a solid. A stock solution may be made by dissolving the cagrilintide (acetate) in the solvent of choice, which should be purged with an inert gas. Cagrilintide (acetate) is slightly soluble (0.1-1 mg/ml) in DMSO.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of cagrilintide (acetate) can be prepared by directly dissolving the solid in aqueous buffers. Cagrilintide (acetate) is sparingly soluble (1-10 mg/ml) in PBS (pH 7.2). We do not recommend storing the aqueous solution for more than one day.

### Description

Cagrilintide is an agonist of amylin and calcitonin receptors and an acylated derivative of amylin.<sup>1,2</sup> It binds to the amylin 3 receptor (AMY<sub>3</sub>; IC<sub>50</sub> = 170 pM for the human receptor) and calcitonin receptor (IC<sub>50</sub> = 223 pM for the human receptor). Cagrilintide activates human AMY<sub>3</sub> and calcitonin receptors in reporter assays (EC<sub>50</sub>s = 49 and 62 pM, respectively). It increases cAMP accumulation in COS-1 cells expressing AMY<sub>1</sub>, AMY<sub>3</sub>, or calcitonin receptors (EC<sub>50</sub>s = 79.43, 114.82, and 43.65 nM, respectively).<sup>2</sup> Cagrilintide (250 μM) has a low propensity for inducing amyloid fibril formation with a lag time of 45 hours in a thioflavin T assay.<sup>1</sup> Cagrilintide reduces food intake in rats for at least 48 hours after administration of a single dose of 3 or 30 nmol/kg. It reduces body weight, food intake, and fat mass, but does not reduce blood glucose or increase blood insulin levels, in a mouse model of diet-induced obesity when administered at a dose of 100 nmol/kg.<sup>3</sup>

### References

1. Kruse, T., Hansen, J.L., Dahl, K., et al. *J. Med. Chem.* **64**(15), 11183-11194 (2021).
2. Fletcher, M.M., Keov, P., Truong, T.T., et al. *J. Pharmacol. Exp. Ther.* **77**(3), 417-440 (2021).
3. Sun, X., Yang, D., Li, Y., et al. *Peptides* **177**, 171203 (2024).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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