

PRODUCT INFORMATION



Octapeptide-2

Item No. 35184

CAS Registry No.: 1054611-00-5

Formal Name: L-lysyl-L-leucyl-L-lysyl-L-lysyl-L-threonyl-L- α -glutamyl-L-threonyl-L-glutamine

Synonym: KLKKTETQ

MF: $C_{42}H_{78}N_{12}O_{14}$

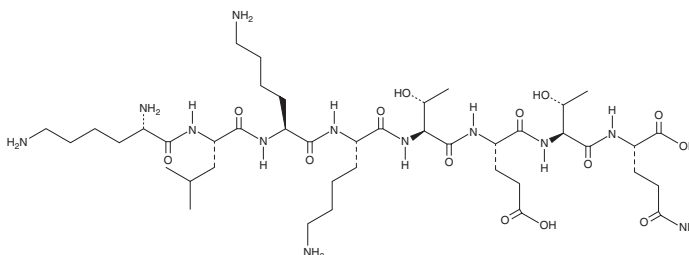
FW: 975.1

Purity: $\geq 95\%$

Supplied as: A solid

Storage: -20°C

Stability: ≥ 2 years



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

Laboratory Procedures

Octapeptide-2 is supplied as a solid. A stock solution may be made by dissolving the octapeptide-2 in the solvent of choice, which should be purged with an inert gas. Octapeptide-2 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of octapeptide-2 in these solvents is approximately 1, 15, and 5, respectively.

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 octapeptide-2 can be prepared by directly dissolving the solid in aqueous buffers. The solubility of octapeptide-2 in PBS (pH 7.2) is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Octapeptide-2 is a thymosin $\beta 4$ -derived peptide.¹ It promotes thymidine incorporation in mouse keratinocytes in a concentration-dependent manner.

Reference

1. Chung, Y.J., Kim, Y.D., and Kim, C.R. Peptides for promoting hair growth and improving wrinkle and cosmetic compositions comprising the same. *Caregen Co., Ltd.* **US8,106,017B2** (2012).

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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