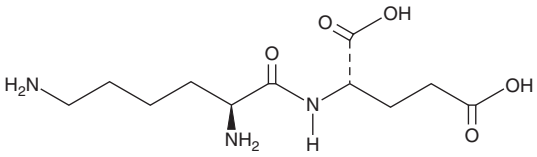
PRODUCT INFORMATION

Vilon

Item No. 46900

CAS Registry No.:	45234-02-4
Formal Name:	L-lysyl-L-glutamic acid
Synonyms:	Lys-Glu-OH, Lysylglutamic Acid
Peptide Sequence:	KE-OH
MF:	$C_{11}H_{21}N_3O_5$
FW:	275.3
Purity:	≥95%
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

Vilon is supplied as a solid. Aqueous solutions of vilon can be prepared by directly dissolving the solid in aqueous buffers. Vilon 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

Vilon is a synthetic dipeptide bioregulator with anti-aging activities.[1-3] It increases proliferation in young and aged rat skin fibroblast cultures but reduces matrix metalloproteinase-9 (MMP-9) levels only in aged cultures.[1] Vilon (20 ng/ml) increases sirtuin 6 (SIRT6) and collagen I levels and decreases IL-1, NF-κB, and TGF-β levels in aged human skin fibroblast cultures.[2] It increases the number of sister chromatid exchanges, indicating deheterochromatinization, in lymphocytes isolated from elderly individuals at 0.01 µg/ml.[3]

References

1. Lin'kova, N.S., Drobintseva, A.O., Orlova, O.A., *et al.* Peptide regulation of skin fibroblast functions during their aging *in vitro*. *Bull. Exp. Biol. Med.* **161(1)**, 175-178 (2016).
2. Fridman, N.V., Linkova, N.S., Kozhevnikova, E.O., *et al.* Comparison of the effects of KE and AED peptides on functional activity of human skin fibroblasts during their replicative aging. *Bull. Exp. Biol. Med.* **170(1)**, 154-157 (2020).
3. Lezhava, T., Khavison, V., Monaselidze, J., *et al.* Bioregulator Vilon-induced reactivation of chromatin in cultured lymphocytes from old people. *Biogerontology* **5(2)**, 73-79 (2004).

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.

WARRANTY AND LIMITATION OF REMEDY
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