

β-Interleukin I (163-171), human

Cat. No.:	HY-113893
CAS No.:	106021-96-9
Molecular Formula:	C ₃₉ H ₆₄ N ₁₂ O ₁₉
Molecular Weight:	1004.99
Sequence Shortening:	VQGEESNDK
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	β-Interleukin I (163-171), human, an immunostimulatory fragment of human IL-1β peptide, is a T cell activator. β-Interleukin I (163-171), human is not an IL-1R-binding domain of IL-1β. β-Interleukin I (163-171), human is a potent adjuvant that enhances the immune response in a variety of exptl. situations ^{[1][3][4]} .
In Vitro	β-Interleukin I (163-171), human (12.5-400 μg/mL, 72 h) stimulates mouse thymocyte proliferation ^[6] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	β-Interleukin I (163-171), human (50 μg, daily, a poorly immunogenic fibrosarcoma (CE-2) of BALB/c mice model) induces a consistent but limited inhibition of tumor growth ^[2] . β-Interleukin I (163-171), human (1 μmole/kg, i.v.) together with the T-dependent antigen SRBC increases the primary immune response against the antigen ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Nencioni L, et al. In vivo immunostimulating activity of the 163-171 peptide of human IL-1 beta. J Immunol. 1987 Aug 1;139(3):800-4.
- [2]. Forni G, et al. Ability of a nonapeptide of the human IL-1 beta to recruit anti-tumor reactivity in recipient mice. J Immunol. 1989 Jan 15;142(2):712-8.
- [3]. Boraschi D, et al. In vivo stimulation and restoration of the immune response by the noninflammatory fragment 163-171 of human interleukin 1 beta. J Exp Med. 1988 Aug 1;168(2):675-86.
- [4]. Tagliabue, A., et al. (1997). Interleukin 1 and Its Synthetic Peptide 163-171 as Vaccine Adjuvants. Vaccine Design pp 167-173.
- [5]. Boraschi D, et al. Binding and internalization of the 163-171 fragment of human IL-1 beta. Cytokine. 1992 May;4(3):201-4.
- [6]. Bajpai K, et al. Immunomodulating activity of analogs of noninflammatory fragment 163-171 of human interleukin-1beta. Immunopharmacology. 1998 Jan;38(3):237-45.

Caution: Product has not been fully validated for medical applications. For research use only.

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