

Romurtide

Cat. No.:	HY-122767
CAS No.:	78113-36-7
Molecular Formula:	C ₄₃ H ₇₈ N ₆ O ₁₃
Molecular Weight:	887.11
Target:	Interleukin Related
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Romurtide (Muroctasin), a synthetic muramyl dipeptide derivative, is a cytokines inducer. Romurtide can increase peripheral neutrophils and monocytes in vivo and enhance production of colony-stimulating factors (CSFs), IL-1 and IL-6 in vitro ^[1] .	
IC₅₀ & Target	Cytokines ^[1]	
In Vitro	Romurtide significantly enhances production of colony-stimulating factors (CSFs), interleukin-1 (IL-1) and interleukin-6 (IL-6) by the cells of monkey peripheral monocytes ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	Romurtide (1 mg/head; s.c.; single dosage) increases significantly the number of peripheral neutrophils and monocytes in healthy cynomolgus monkeys ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Healthy cynomolgus monkeys ^[1]
	Dosage:	1 mg/head
	Administration:	s.c.; single dosage
	Result:	Increased significantly the number of peripheral neutrophils and monocytes.

REFERENCES

[1]. Nakajima R, Yshida Y, Akahane K, Sekiguchi M, Osada Y. Stimulatory effect of romurtide on hematopoiesis in monkeys. *Arzneimittelforschung*. 1991 Jan;41(1):60-5.

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

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