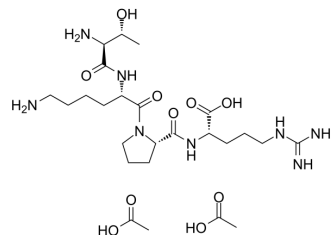


Tuftsins diacetate

Cat. No.:	HY-P0240A
CAS No.:	72103-53-8
Molecular Formula:	C ₂₅ H ₄₈ N ₈ O ₁₀
Molecular Weight:	620.7
Sequence:	Thr-Lys-Pro-Arg
Sequence Shortening:	TKPR
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Tuftsins diacetate, a tetrapeptide, is a macrophage/microglial activator.
IC ₅₀ & Target	Human Endogenous Metabolite
In Vitro	<p>Tuftsins is a tetrapeptide, Thr-Lys-Pro-Arg, which resides in the Fc-domain of the heavy chain of immunoglobulin G. Tuftsins possesses a broad spectrum of activities related primarily to the immune system function and exerts on phagocytic cells, notably on macrophages. Tuftsins's capacity to augment cellular activation is mediated by specific receptors that are identified, characterized, and recently isolated from rabbit peritoneal granulocytes^[1]. Tuftsins, a macrophage/microglial activator, dramatically improves the clinical course of experimental autoimmune encephalomyelitis (EAE), a well-established animal model for MS. Tuftsins administration correlates with upregulation of the immunosuppressive Helper-2 Tcell (Th2) cytokine transcription factor GATA-3. Tuftsins promotes phagocytic activity for cells of monocytic origin, such as neutrophils, macrophages and microglia, all of which are thought to express Tuftsins receptors^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

CUSTOMER VALIDATION

- Biochem Pharmacol. 2022 May;199:115030.
- bioRxiv. 2023 Mar 25.

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REFERENCES

- [1]. Fridkin M, et al. Tuftsins: its chemistry, biology, and clinical potential. Crit Rev Biochem Mol Biol. 1989;24(1):1-40.
- [2]. Wu M, et al. Tuftsins promotes an anti-inflammatory switch and attenuates symptoms in experimental autoimmune encephalomyelitis. PLoS One. 2012;7(4):e34933.

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

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