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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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Cholesterol oxidase, rhodococcus sp

Cat. No.:	HY-P2848A	
CAS No.:	9028-76-6	
Target:	Toll-like Receptor (TLR)	
Pathway:	Immunology/Inflammation	Cholesterol oxidase, rhodococcus sp
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

BIOLOGICAL ACTIVITY

Description	Cholesterol oxidase, Rhodococcus sp. is a key enzyme in the cholesterol degradation process. It catalyzes the isomerization and oxidation of cholesterol mediated by the coenzyme FAD. Research indicates that cholesterol oxidase plays a crucial role in the pathogenicity of Mycobacterium tuberculosis by modulating the host macrophage immune response through inhibition of the Toll-like receptor 2 (TLR2) signaling pathway, thereby enhancing the survival of Mycobacterium tuberculosis. Cholesterol oxidase, from Rhodococcus sp., shows potential for research in the field of tuberculosis ^{[1][2]} .
IC ₅₀ & Target	TLR2

REFERENCES

- [1]. Cui H, et al. Heterologous Expression and Function of Cholesterol Oxidase: A Review. Protein Pept Lett. 2023;30(7):531-540.
- [2]. Brzostek A, et al. Cholesterol oxidase is required for virulence of Mycobacterium tuberculosis. FEMS Microbiol Lett. 2007 Oct;275(1):106-12.

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

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