

L-Lysine α -oxidase

Cat. No.:	HY-P2965
CAS No.:	70132-14-8
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

L-Lysine alpha-oxidase

BIOLOGICAL ACTIVITY

Description	L-Lysine α -oxidase is a potent anticancer agent. L-Lysine α -oxidase also a L-amino acid oxidase, deaminates L-lysine with the yield of H ₂ O ₂ , ammonia, and α -keto- ϵ -aminocaproate. L-Lysine α -oxidase shows cytotoxicity and anticancer activity ^{[1][2]} .	
In Vitro	L-Lysine α -oxidase shows cytotoxicity for HT29, LS174T, MCF7, SKOV3, PC3, K562 cells ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	L-Lysine α -oxidase (150 U/kg on day 2 and 75 U/kg on days 4, 6, 8, and 10; i.p.) shows anticancer activity in human tumor models ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	6-9 weeks, Female Balb/c nude mice (SKBR3, HCT116, Bro, SKOV3, Alex, T47D, LS174T tumor models) ^[2]
	Dosage:	150 U/kg on day 2 and 75 U/kg on days 4, 6, 8, and 10
	Administration:	i.p.; 10 U/ml saline solution
	Result:	Caused inhibition of tumor growth with maximal T/C of 49, 12, 51, 35, 54,36, 37% for SKBR3, HCT116, Bro, SKOV3, Alex, T47D, LS174T tumor models, respectively.

REFERENCES

[1]. Lukasheva EV, et al. L-Lysine α -Oxidase: Enzyme with Anticancer Properties. Pharmaceuticals (Basel). 2021 Oct 22;14(11):1070.

[2]. Pokrovsky VS, et al. Enzymatic properties and anticancer activity of L-lysine α -oxidase from Trichoderma cf. aureoviride Rifai BKMf-4268D. Anticancer Drugs. 2013 Sep;24(8):846-51.

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

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