

Human α -defensin 5

Cat. No.:	HY-P5694
Molecular Formula:	C ₁₄₄ H ₂₃₈ N ₅₀ O ₄₅ S ₆
Molecular Weight:	3582.13
Sequence:	Ala-Thr-Cys-Tyr-Cys-Arg-Thr-Gly-Arg-Cys-Ala-Thr-Arg-Glu-Ser-Leu-Ser-Gly-Val-Cys-Glu-Ile-Ser-Gly-Arg-Leu-Tyr-Arg-Leu-Cys-Cys-Arg (Disulfide bridge:Cys1-Cys6,Cys2-Cys4,Cys3-Cys5)
Sequence Shortening:	ATCYCRTGRCATRESLSGVCEISGRLYRLCCR (Disulfide bridge:Cys1-Cys6,Cys2-Cys4,Cys3-Cys5)
Target:	HPV; Parasite
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Human α -defensin 5 is an antiviral peptide. Human α -defensin 5 blocks infection of non-enveloped viruses, including AdV, HPV, and polyomaviruses (IC₅₀: 0.6-1.25 μ M for HPV16). Human α -defensin 5 can bind to the viral capsid and blocks escape of the virus from the endosome. Human α -defensin 5 increases HIV binding to the cell surface. Human α -defensin 5 also has parasitocidal activity^[1].

REFERENCES

- [1]. Gounder AP, et al. Critical determinants of human α -defensin 5 activity against non-enveloped viruses. J Biol Chem. 2012 Jul 13;287(29):24554-62.
- [2]. Tanaka T, et al. Parasitocidal activity of human alpha-defensin-5 against Toxoplasma gondii. In Vitro Cell Dev Biol Anim. 2010 Jun;46(6):560-5.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA