

(Gly14)-Humanin (human) (acetate)

Cat. No.:	HY-P3993A	
Molecular Formula:	C ₁₁₈ H ₂₀₂ N ₃₄ O ₃₁ S ₂ .xC ₂ H ₄ O ₂	
Sequence:	Met-Ala-Pro-Arg-Gly-Phe-Ser-Cys-Leu-Leu-Leu-Leu-Thr-Gly-Glu-Ile-Asp-Leu-Pro-Val-Lys-Arg-Arg-Ala	
Sequence Shortening:	MAPRGFSCLLLLTGEIDLPKRRA	MAPRGFSCLLLLTGEIDLPKRRA (acetate)
Target:	Apoptosis	
Pathway:	Apoptosis	
Storage:	Sealed storage, away from moisture and light	
	Powder	-80°C 2 years -20°C 1 year
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 50 mg/mL (Need ultrasonic)
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BIOLOGICAL ACTIVITY

Description	(Gly14)-Humanin (human) (14-Glycine-Humanin (human)) acetate is an analog of Humanin in which the 14th amino acid serine was replaced with glycine (Gly). (Gly14)-Humanin (human) acetate has anti-apoptotic and neuroprotective functions [1][2].
In Vitro	(Gly14)-Humanin (human) acetate (0.1-10 μM; 72 hours) significantly increases cell viability, reduced nuclear fluorescence of HUVECs, the levels of cleaved PARP, ROS formation and the ratio of bax/bcl-2 compared with treatment with high glucose (HG) for 72h. And reduces mRNA level of bax and increases mRNA level of bcl-2 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	(Gly14)-Humanin (human) acetate acetate (0.1 μg/5 μL; i.c.v.; once) decreases cells with plasmalemma permeability in the injured cortex and hippocampus, reduces brain lesion volume, improves motor performance and ameliorates performance in the Morris water maze test ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Ying Xie, et al. Protection effect of [Gly14]-Humanin from apoptosis induced by high glucose in human umbilical vein endothelial cells. Diabetes Res Clin Pract. 2014 Dec;106(3):560-6.
- [2]. T Wang, et al. [Gly14]-Humanin reduces histopathology and improves functional outcome after traumatic brain injury in mice. Neuroscience. 2013 Feb 12;231:70-81.

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

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