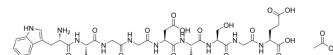


δ-Sleep Inducing Peptide acetate

Cat. No.:	HY-P1501A
Molecular Formula:	C ₃₇ H ₅₂ N ₁₀ O ₁₇
Molecular Weight:	908.87
Sequence:	Trp-Ala-Gly-Gly-Asp-Ala-Ser-Gly-Glu
Sequence Shortening:	WAGGDASGE
Target:	SOD
Pathway:	Immunology/Inflammation
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

H₂O : 100 mg/mL (110.03 mM; Need ultrasonic)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		1.1003 mL	5.5013 mL	11.0027 mL
	5 mM		0.2201 mL	1.1003 mL	2.2005 mL
	10 mM		0.1100 mL	0.5501 mL	1.1003 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

δ-Sleep Inducing Peptide acetate is a neuropeptide, with antioxidant and anxiolytic properties^{[1][2]}.

In Vivo

δ-Sleep Inducing Peptide (DSIP) increases the spindle activity increased in rabbit in vivo, and decreases heart and respiration rate as well. δ-Sleep Inducing Peptide (DSIP) may act as a programming modulator at supra-operational level rather than as a transmitter at operational level^[1].

δ-Sleep Inducing Peptide (DSIP; 40-360 µg/kg, i.p.) increases catalase and superoxide dismutase (SOD) activities and malonic dialdehyde (MDA) concentration in 40 µg/kg in the liver homogenate of rats subjected to acute stress, but exhibits the opposite effects at 120 µg/kg, and 360 µg/kg^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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- [1]. Monnier M, et al. The delta sleep inducing peptide (DSIP). Comparative properties of the original and synthetic nonapeptide. *Experientia*. 1977 Apr 15;33(4):548-52.
- [2]. Bobyntsev II, et al. Effect of Delta Sleep-Inducing Peptide on Functional State of Hepatocytes in Rats During Restraint Stress. *Bull Exp Biol Med*. 2016 Feb;160(4):421-4.
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Caution: Product has not been fully validated for medical applications. For research use only.

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