[Asp5]-Oxytocin acetate

Cat. No.:	HY-P3217A
Molecular Formula:	$C_{45}H_{69}N_{11}O_{15}S_2$
Molecular Weight:	1068.22
Sequence:	Cys-Tyr-Ile-Gln-Asp-Cys-Pro-Leu-Gly-NH2 (Disulfide bridge:Cys1-Cys6)
Sequence Shortening:	CYIQDCPLG-NH2 (Disulfide bridge:Cys1-Cys6)
Target:	Oxytocin Receptor
Pathway:	GPCR/G Protein
Storage:	Sealed storage, away from moisture and light, under nitrogen 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, under nitrogen)

BIOLOGICAL ACTIVITY

Description	[Asp5]-Oxytocin acetate is the first 5-position neurohypophyseal hormone analogue possessing significant biological activity. [Asp5]-Oxytocin acetate causes uterine contractions in vitro, enhanced by Mg^{2+}. [Asp5]-Oxytocin acetate has the ability of rat uteroconstrictor, avian vasodilator, and rat antidiuretic[1].
In Vitro	[Asp5]-Oxytocin acetate retains not only a high affinity for the uterotonic receptor, but also an intrinsic activity identical with that of oxytocin[1]. [Asp5]-Oxytocin acetate displays an increasing intrinsic activity enhanced by 1 mM Mg^{2+}[1]. [Asp5]-Oxytocin acetate exerts the same potencies of rat uterotonic, avian vasodepressor, and rat antidiuretic with 20.3, 41, and 0.14 units/mg dose[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Walter R, et al. [5-Aspartic acid]-oxytocin: first 5-position neurohypophyseal hormone analogue possessing significant biological activity. J Am Chem Soc. 1978;100(3):792-793.

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