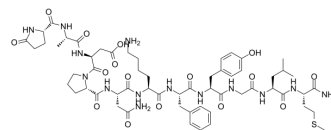


Physalaemin

Cat. No.:	HY-P0255
CAS No.:	2507-24-6
Molecular Formula:	C ₅₈ H ₈₄ N ₁₄ O ₁₆ S
Molecular Weight:	1265.44
Sequence:	GLP-Ala-Asp-Pro-Asn-Lys-Phe-Tyr-Gly-Leu-Met-NH ₂
Sequence Shortening:	{Glp}-ADPNKFYGLM-NH ₂
Target:	Neurokinin Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Physalaemin, a non-mammalian tachykinin, binds selectively to neurokinin-1 (NK1) receptor with high affinity.
IC ₅₀ & Target	NK1
In Vitro	Physalaemin (PHY), an undecapeptide with the sequence pGlu-Ala-Asp-Pro-Asn-Lys-Phe-Tyr-Gly-Leu-Met-NH ₂ , is a member of the tachykinin family of neuropeptides. PHY is very close to the mammalian tachykinin substance P (SP) in its function and chemical composition, and SP is well studied and characterized ^[1] . Physalaemin is a bradykinin potentiating peptide (BPP-5a) ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Grace CR, et al. Solution conformation of non-mammalian tachykinin physalaemin in lipid micelles by nuclear magnetic resonance. *Biopolymers*. 2011;96(3):252-9.
- [2]. Kobayashi J, Hydrolytic cleavage of pyroglutamyl-peptide bond. V. selective removal of pyroglutamic acid from biologically active pyroglutamylpeptides in high concentrations of aqueous methanesulfonic acid. *Chem Pharm Bull (Tokyo)*. 2006 Jun;54(6):827-31.

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

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