

Kalata B7

Cat. No.:	HY-P10325
CAS No.:	339532-29-5
Molecular Formula:	C ₁₂₈ H ₁₉₆ N ₃₆ O ₄₀ S ₆
Molecular Weight:	3071.53
Sequence:	Arg-Asn-Gly-Leu-Pro-Val-Cys-Gly-Glu-Thr-Cys-Thr-Leu-Gly-Thr-Cys-Tyr-Thr-Gln-Gly-Cys-Thr-Cys-Ser-Trp-Pro-Ile-Cys-Lys (Disulfidebridge:Cys7-Cys21;Cys11-Cys23;Cys16-Cys28)
Sequence Shortening:	RNGLPVCGETCTLGTCYTQGCTCSWPICK (Disulfidebridge:Cys7-Cys21;Cys11-Cys23;Cys16-Cys28)
Target:	Vasopressin Receptor; Oxytocin Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Kalata B7 is a cyclotide that can be isolated from *Oldenlandia affinis* DC (Rubiaceae) and possesses membrane-permeating capabilities. Kalata B7 is also a partial agonist of oxytocin- and vasopressin V1a- receptors^{[1][2]}.

REFERENCES

[1]. Strömstedt AA, et al. Selective membrane disruption by the cyclotide kalata B7: complex ions and essential functional groups in the phosphatidylethanolamine binding pocket. *Biochim Biophys Acta*. 2016;1858(6):1317-1327.

[2]. Taghizadeh MS, et al. Discovery of the cyclotide caripe 11 as a ligand of the cholecystokinin-2 receptor. *Sci Rep*. 2022 Jun 2;12(1):9215.

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