

## Granuliberin R

Cat. No.:	HY-P2706
CAS No.:	64704-41-2
Molecular Formula:	C <sub>69</sub> H <sub>103</sub> N <sub>19</sub> O <sub>14</sub>
Molecular Weight:	1422.68
Sequence Shortening:	FGFLPIYRRPAS-NH2
Target:	Histamine Receptor
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

<b>Description</b>	Granuliberin R is a new mast cell degranulating peptide comes from amphibian, can be isolated from the skin of frog <i>Rana rugosa</i> . Granuliberin R is a dodecapeptide, can act on rat peritoneal mast cell to liberate granules and release histamine <sup>[1][2]</sup> .
<b>In Vitro</b>	Granuliberin R (10 µg/mL) does not alter the release of catecholamines and adenine nucleotides from cultured adrenal chromaffin cells, while the Mastoparan (10 µg/mL) increases both of them <sup>[3]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	Granuliberin R (0.1 mg/mL, 1 µg/mL, and 10 ng/mL; injection; single dose for 60 s) interfere in the proliferation of oral keratinocytes and the activity of connective tissue cells when treatment is conducted into rats mandibular gingiva in the vicinity of the right mental foramen <sup>[4]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Nakajima T, et al. A new mast cell degranulating peptide, granuliberin-R, in the frog (*Rana rugosa*) skin. *Chem Pharm Bull (Tokyo)*. 1977 Sep;25(9):2464-5.
- [2]. Yasuhara T, et al. The studies on the active peptide in the skin of *Rana rugosa*. II. The structure of ranatensin-R, the new ranatensin analogue, and granuliberin-R, the new mast cell degranulating peptide. *Chem Pharm Bull (Tokyo)*. 1979 Feb;27(2):492-8.
- [3]. Vitale N, et al. Exocytosis in chromaffin cells: evidence for a MgATP-independent step that requires a pertussis toxin-sensitive GTP-binding protein. *Biochem J*. 1994 May 15;300 ( Pt 1)(Pt 1):217-27.
- [4]. Kozakiewicz M, et al. Modulation of the mitotic activity and population of the mast cells in the oral mucosa by substance P. *Cell Mol Biol Lett*. 2003;8(3):727-34.

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

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