

Brain Natriuretic Peptide-45, rat TFA

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| Cat. No.: | HY-P1573A |
| Molecular Formula: | $C_{213}H_{349}N_{71}O_{65}S_3 \cdot xC_2HF_3O_2$ |
| Sequence: | Ser-Gln-Asp-Ser-Ala-Phe-Arg-Ile-Gln-Glu-Arg-Leu-Arg-Asn-Ser-Lys-Met-Ala-His-Ser-Ser-Ser-Cys-Phe-Gly-Gln-Lys-Ile-Asp-Arg-Ile-Gly-Ala-Val-Ser-Arg-Leu-Gly-Cys-Asp-Gly-Leu-Arg-Leu-Phe(Disulfide bridge: Cys23-Cys39) <small>SQDSAFRIQERLRNSKMAHSSSCFGQKIDRIGAVSRLGCDGLRLF(Disulfide bridge: Cys23-Cys39) (TFA salt)</small> |
| Sequence Shortening: | SQDSAFRIQERLRNSKMAHSSSCFGQKIDRIGAVSRLGCDGLRLF(Disulfide bridge: Cys23-Cys39) |
| Target: | Others |
| Pathway: | Others |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |

BIOLOGICAL ACTIVITY

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| Description | Brain Natriuretic Peptide-45, rat TFA (BNP-45, rat TFA) is a circulating form of rat brain natriuretic peptide isolated from rat heart with potent hypotensive and natriuretic potency ^[1] . |
| In Vivo | Brain Natriuretic Peptide-45, rat (0.1, 0.2, 0.5, 1.0 and 2.0 nmol/kg, i.v.) shows potent natriuretic and hypotensive activities in anesthetized spontaneously hypertensive rats (SHR) and Wistar-Kyoto rats (WKY). Brain Natriuretic Peptide-45, rat with high concentration decreases blood pressure in SHR. But WKY is more susceptible than SHR to BNP-45 for diuresis, natriuresis and urinary cGMP excretion. In addition, high dose of Brain Natriuretic Peptide-45, rat causes prolonged lowering of blood pressure and urinary cGMP excretion in WKY ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

[1]. Kita T, et al. Effects of brain natriuretic peptide-45, a circulating form of rat brain natriuretic peptide, in spontaneously hypertensive rats. Eur J Pharmacol. 1991 Sep 4;202(1):73-9.

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

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