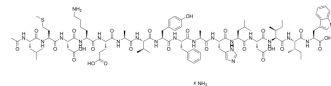


BQ-3020 ammonium

Cat. No.:	HY-P1016B
Molecular Formula:	$C_{96}H_{140}N_{20}O_{25}S \cdot xNH_3$
Sequence:	Ac-Leu-Met-Asp-Lys-Glu-Ala-Val-Tyr-Phe-Ala-His-Leu-Asp-Ile-Ile-Trp
Sequence Shortening:	Ac-LMDKEAVYFAHLDIIW
Target:	Endothelin 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

BQ-3020 ammonium is a selective endothelin receptor (ET_B receptor) agonist. BQ-3020 ammonium inhibits [¹²⁵I] ET-1 binding to ET_B receptors, with an IC₅₀ value of 0.2 nM. BQ-3020 ammonium elicits vasoconstriction in the rabbit pulmonary artery. BQ-3020 ammonium makes relaxation of the pig urinary bladder neck and can be used for cardiovascular disease research^{[1][2]}.

REFERENCES

- [1]. Arteaga JL, et.al. Endothelin ET(B) receptors are involved in the relaxation to the pig urinary bladder neck. *Neurourol Urodyn.* 2012 Jun;31(5):688-94.
- [2]. Ihara M, et.al. A novel radioligand [¹²⁵I]BQ-3020 selective for endothelin (ETB) receptors. *Life Sci.* 1992;51(6):PL47-52.
- [3]. Quang PN, et.al. Peripheral endothelin B receptor agonist-induced antinociception involves endogenous opioids in mice. *Pain.* 2010 May;149(2):254-262.

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

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