

Big Endothelin-1 (22-38), human

Cat. No.:	HY-P3733
CAS No.:	124932-61-2
Molecular Formula:	C ₈₀ H ₁₂₅ N ₂₃ O ₂₅
Molecular Weight:	1808.99
Sequence Shortening:	VNTPEHVVPYGLGSPRS
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	<p>Big Endothelin-1 (22-38), human is derived from human, is the 22-38 fragment of Big Endothelin-1 (ET-1) (1-38). Big ET-1 (1-38) is a propeptide of ET-1, which has potent and long-lasting vasoconstrictor effects, equips a specific enzymatic cleavage of the 38 amino acid chain to form ET-1 (1-21) and the C-terminal fragment Big ET-1 (22-38)^[1].</p> <p>Caution: Product has not been fully validated for medical applications. For research use only.</p>
In Vitro	<p>Big Endothelin-1 (22-38), human (0.1 μM; 30 min) induces the release of prostacyclin (PGI₂) from rabbit, guinea pig, and rat lungs^[2]. <small>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</small></p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
In Vivo	<p>Big Endothelin-1 (22-38), human (3 nM/kg; intra-arterial injection; single dose) produces a significant rise in left ventricular systolic pressure (LVSP) in anesthetized rabbits, and is enhanced by cyclooxygenase inhibitor Indomethacin (HY-14397) (5 mg/kg i.v.) significantly^[3].</p> <p>Big Endothelin-1 (22-38), human (3 nM/kg; intravascular method; single dose), has no antiaggregatory properties for platelet induced by ADP in rabbits^[3].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

- [1]. Hemsén A, et al. Metabolism of Big endothelin-1 (1-38) and (22-38) in the human circulation in relation to production of endothelin-1 (1-21). Regul Pept. 1995 Feb 14;55(3):287-97.
- [2]. D'Orléans-Juste P, et al. Human big endothelin releases prostacyclin in vivo and in vitro through a phosphoramidon-sensitive conversion to endothelin-1. J Cardiovasc Pharmacol. 1991;17 Suppl 7:S251-5.
- [3]. Huneidi AH, et al. Endothelin-1 and big endothelin cause subarachnoid hemorrhage in the anesthetized rabbit. J Cardiovasc Pharmacol. 1991;17 Suppl 7:S492-5.