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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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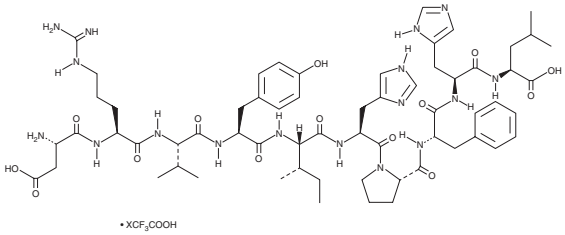
PRODUCT INFORMATION

Angiotensin I (human, rat, mouse) (trifluoroacetate salt)

Item No. 24737

Formal Name:	5-L-isoleucine-angiotensin I, trifluoroacetate salt
MF:	$C_{62}H_{89}N_{17}O_{14} \bullet XCF_3COOH$
FW:	1,296.5
Purity:	≥95%
Supplied as:	A lyophilized powder
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Angiotensin I (human, rat, mouse) (trifluoroacetate salt) is supplied as a lyophilized powder. A stock solution may be made by dissolving the angiotensin I (human, rat, mouse) (trifluoroacetate salt) in water. The solubility of angiotensin I (human, rat, mouse) (trifluoroacetate salt) in water is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Angiotensin I is an endogenous peptide that is converted to the vasoconstrictor angiotensin II (Item No. 17150) by angiotensin-converting enzyme (ACE).[1] It binds to angiotensin receptors in human myometrium membrane preparations (K_d = 11.2 nM) and increases renal vascular resistance in isolated rat kidney (EC_{50} = 10.5 nM).[2,3] *In vivo*, angiotensin I (5 µg/kg, i.c.v.) increases mean arterial pressure (MAP) and plasma arginine vasopressin (AVP) level in fetal ewes.[4]

References

1. Chen, Z., Tan, F., Erdös, E.G., *et al.* Hydrolysis of angiotensin peptides by human angiotensin I-converting enzyme and the resensitization of B2 kinin receptors. *Hypertension* **46(6)**, 1368-1373 (2005).
2. Bouley, R., Pérodin, J., Plante, H., *et al.* N- and C-terminal structure-activity study of angiotensin II on the angiotensin AT2 receptor. *Eur. J. Pharmacol.* **343(2-3)**, 323-331 (1998).
3. Schmidt, M., Giesen-Grouse, E.-M., Krieger, J.-P., *et al.* Effect of angiotensin converting enzyme inhibitors on the vasoconstrictor action of angiotensin I on isolated rat kidney. *J. Cardiovasc. Pharmacol.* **8(suppl 10)**, S100-S105 (1986).
4. Shi, L., Mao, C., Zeng, F., *et al.* Central angiotensin I increases fetal AVP neuron activity and pressor responses. *Am. J. Physiol. Endocrinol. Metab.* **298(6)**, E1274-E1282 (2010).

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