

Angiotensin III Protein
A Ligand of AT1 and AT2 G-Protein Coupled Receptors
Catalog # PG10011

Specification

Angiotensin III Protein - Product Information

Angiotensin III Protein - Additional Information

Storage
-20°C

Precautions

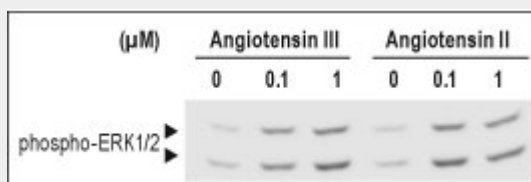
Angiotensin III Protein is for research use only and not for use in diagnostic or therapeutic procedures.

Angiotensin III Protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Angiotensin III Protein - Images



Angiotensin_III - Abgent Angiotensin III induces MAPK activation in IEC-6 cells similar to Angiotensin II. Cells were incubated in serum depleted medium for 2 h and then stimulated with 0.1 μM and 1 μM Angiotensin III (#PG10011) for 10 min or with 0.1 μM and 1 μM Angiotensin II for comparison. Cell proteins were resolved by SDS-PAGE and probed with anti-phospho-ERK1/2.

Angiotensin III Protein - Background

Angiotensin III (Ang III) is a hexapeptide formed as a result of a cleavage at the N-terminus of Angiotensin II (Ang II), a key factor in the Renin-Angiotensin-Aldosterone (RAAS) system. In peripheral Ang systems, Ang II is the main effector peptide in the systemic circulation, although

exogenous Ang III can be as potent as Ang II in, for example, stimulating aldosterone secretion² or inhibiting renin release³. In the rat brain, Ang III was found to be equipotent with Ang II as a pressor agent or dipsogen⁴⁻⁷ and was bound as avidly to the nervous system as Ang II. Ang receptor subtype AT1 has greater affinity towards Ang II and is also responsive to Ang III, while the AT2 receptor subtype appears to be more sensitive to Ang III but less responsive to Ang II¹.

Angiotensin III Protein - References

1 . Wright, JW. et al.(2011)Prog. Neurobiol.95,49.2 . Blair-West, JR. et al.(1980)J. Endocrinol.87,409.3 . Fei, DTW. et al.(1980)Life Sci.27,1495.4 . Fink, GD. et al.(1985)Am. J. Physiol. Endocrinol. Metab.249,E201.5 . Jensen, LL. et al.(1989)Brain Res.490,48.6 . Wright, JW. et al.(1985)Am. J. Physiol.Regulatory Integrative Comp. Physiol.249,R514.7 . Wright, JW. et al.(1989)Am. J. Physiol.Regulatory Integrative Comp. Physiol.257,R1551.