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SANTA CRUZ BIOTECHNOLOGY, INC.

Angiotensinase C (h2): 293T Lysate: sc-170413

BACKGROUND

Angiotensinase C, also designated lysosomal Pro-X carboxypeptidase or prolylcarboxypeptidase, belongs to the peptidase S28 family. Angiotensinase C which is highly expressed in placenta, lung and liver and is also expressed in heart, pancreas, kidney and brain, is a cell matrix-associated prekalli-krein (PK) activator. Angiotensin II, a substrate of Angiotensinase C, is involved in regulating blood pressure and electrolyte balance, suggesting that the gene encoding for Angiotensinase C may be related to essential hypertension, a condition involving high blood pressure with no known cause. Angiotensinase C cleaves off the C-terminal amino acids linked to proline in peptides such as Angiotensin II, III and DES-Arg9-bradykinin. The cleavage occurs at an acidic pH, but with some substrates enzymatic activity is retained at a neutral pH.

REFERENCES

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3. Shariat-Madar, Z., Mahdi, F. and Schmaier, A.H. 2002. Identification and characterization of prolylcarboxypeptidase as an endothelial cell prekallikrein activator. J. Biol. Chem. 277: 17962-17969.
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6. Shariat-Madar, Z., Rahimy, E., Mahdi, F. and Schmaier, A.H. 2005. Overexpression of prolylcarboxypeptidase enhances plasma prekallikrein activation on Chinese hamster ovary cells. Am. J. Physiol. Heart Circ. Physiol. 289: 2697-2703.

CHROMOSOMAL LOCATION

Genetic locus: PRCP (human) mapping to 11q14.1.

PRODUCT

Angiotensinase C (h2): 293T Lysate represents a lysate of human Angiotensinase C transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

APPLICATIONS

Angiotensinase C (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive Angiotensinase C antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RESEARCH USE

For research use only, not for use in diagnostic procedures.