

Angiotensin I-Converting Enzyme Substrate

PRODUCT DESCRIPTION

Angiotensin I-Converting Enzyme Substrate is a 10-amino-acid A peptide related to the renin-angiotensin system (RAS), which plays a critical role in blood pressure regulation, fluid and electrolyte balance, and cardiovascular homeostasis. This peptide is used in cardiovascular and renal research to study angiotensin receptor (AT1R/AT2R) signaling, vasoconstriction/vasodilation pathways, and the development of antihypertensive therapeutics.

PRODUCT SPECIFICATIONS

Catalog Number	BPT2571
CAS Number	69677-91-4
Molecular Weight	437.4872 Da
Molecular Formula	C24H27N3O5
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

Benzoic-FAP

Three-Letter Code:

Benzoic-Phe-Ala-Pro-OH

RESEARCH APPLICATIONS

Application	Enzyme activity
Biomarker Target	PKA Kinase
Research Area	Cell Signaling
Sub-category	Kinases, Substrates & Inhibitors

STORAGE & HANDLING

Storage Temperature	-20 deg C
Form	Lyophilized
Stability	Lyophilized product stable for 24 months at -20 deg C
Reconstitution	Reconstitute in sterile water or appropriate buffer
After Reconstitution	Aliquot and store at -20 to -80 deg C
Avoid	Repeated freeze-thaw cycles

AVAILABLE SIZES

Size Options	1 mg, 10 mg
--------------	-------------

Usage

Research use

QUALITY CONTROL

Purity Method

HPLC, Mass Spectrometry (MS)

Identity

Confirmed by ESI-MS or MALDI-TOF

Purity

Peak Area by HPLC $\geq 95\%$

Documentation

Certificate of Analysis (CoA) available upon request