

[D-Phe12]-Bombesin

PRODUCT DESCRIPTION

[D-Phe12]-Bombesin is a 18-amino-acid A peptide related to the bombesin/gastrin-releasing peptide (GRP) family, which mediates diverse physiological functions including gastrointestinal motility, hormone secretion, cell proliferation, and satiety signaling. This peptide is used in oncology and gastrointestinal research to study GRP receptor (GRPR/BB2) signaling, tumor growth, and the development of targeted diagnostic and therapeutic agents.

PRODUCT SPECIFICATIONS

Catalog Number	BPT1822
CAS Number	108437-87-2
Molecular Weight	1629.8782 Da
Molecular Formula	C74H112N22O18S1
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

{Pyr}QRLGNQWAVGfLM-NH2

Three-Letter Code:

H-{Pyr}-Gln-Arg-Leu-Gly-Asn-Gln-Trp-Ala-Val-Gly-{D-Phe}-Leu-Met-NH2

RESEARCH APPLICATIONS

Application	Receptor binding
Biomarker Target	Bombesin/GRP Receptors (BB1-3)
Research Area	Oncology
Sub-category	Bombesin/GRP Signaling & Tumor Biology

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
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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