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DATASHEET

Octpep-1

Product overview

Name	Octpep-1
Cat No	HB7463
Biological action	Inhibitor
Purity	>95%
Description	PI3K/AKT/mTOR signaling inhibitor. Antitumour activity.

Biological Data

Biological description	PI3K/AKT/mTOR signaling inhibitor. Selectively reduces proliferative capacity of human melanoma BRAF(V600E) mutated cells. Also shows weak agonist activity at NK1 receptors and acts synergistically with rapamycin to enhance antiproliferative effects. Reduces tumor progression in vivo.

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in PBS (1 mg/ml), and in DMSO
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Molecular Weight	1350.56
Molecular Formula	$C_{58}H_{86}N_{12}O_{23}$
Source	Synthetic

References

ERK and mTORC1 Inhibitors Enhance the Anti-Cancer Capacity of the Octpep-1 Venom-Derived Peptide in Melanoma BRAF(V600E) Mutations.

Moral-Sanz J et al (2021) Toxins 13
PubMedID 33672955

The structural conformation of the tachykinin domain drives the anti-tumoural activity of an octopus peptide in melanoma BRAF(V600E).

Moral-Sanz J et al (2022) British journal of pharmacology 179
PubMedID 35818835