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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**

**Solubility overview** Soluble in PBS (1 mg/ml), and in DMSO

Storage instructions -20°0

Storage of solutions Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

**Shipping Conditions** 

Important

Stable for ambient temperature shipping. Follow storage instructions on receipt.

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use.

### **Chemical Data**

 $\begin{tabular}{lll} \textbf{Molecular Weight} & 1350.56 \\ \textbf{Molecular Formula} & $C_{58}H_{86}N_{12}O_{23}$ \\ \textbf{Source} & Synthetic \\ \end{tabular}$ 

#### 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