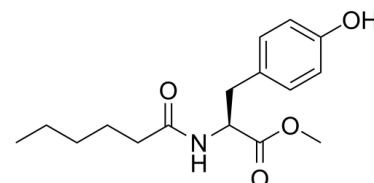


## Data Sheet

Product Name:	MHP
Cat. No.:	CS-6839
CAS No.:	1104874-94-3
Molecular Formula:	C <sub>16</sub> H <sub>23</sub> NO <sub>4</sub>
Molecular Weight:	293.36
Target:	SPHK
Pathway:	Immunology/Inflammation
Solubility:	DMSO : ≥ 100 mg/mL (340.88 mM); H <sub>2</sub> O : < 0.1 mg/mL (insoluble)



### BIOLOGICAL ACTIVITY:

MHP (Methyl caprooyl tyrosinate) is an activator of sphingosine kinase (**SPHK1**), and significantly stimulates CAMP mRNA and protein production. MHP (Methyl caprooyl tyrosinate) enhances antimicrobial defense and innate immunity<sup>[1]</sup>. **In Vitro:** MHP (50-250 μM for 24 hours) increases CAMP mRNA levels in keratinocytes<sup>[1]</sup>.

MHP (100 μM for 24 hours) increases CAMP protein levels in keratinocytes<sup>[1]</sup>.

### References:

[1]. Jeong SK, et al. Sphingosine kinase 1 activation enhances epidermal innate immunity through sphingosine-1-phosphate stimulation of cathelicidin production. J Dermatol Sci. 2015 Sep;79(3):229-34.

### CAIndexNames:

L-Tyrosine, N-(1-oxohexyl)-, methyl ester

### SMILES:

OC(C=C1)=CC=C1C[C@@H](C(OC)=O)NC(CCCCC)=O

**Caution: Product has not been fully validated for medical applications. For research use only.**

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