

## Myristoyl-MEK1 Derived Peptide Inhibitor 1

Cat. No.:	HY-P4136
Molecular Formula:	C <sub>72</sub> H <sub>144</sub> N <sub>18</sub> O <sub>18</sub> S
Molecular Weight:	1702.21
Sequence:	Myr-Met-Pro-Lys-Lys-Lys-Pro-Thr-Pro-Ile-Gln-Leu-Asn-Pro
Sequence Shortening:	Myr-MPKKKPTPIQLNP
Target:	ERK
Pathway:	MAPK/ERK Pathway; Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

Description	Myristoyl-MEK1 Derived Peptide Inhibitor 1 is the myristoylated form of the MEK1 Derived Peptide Inhibitor 1 (HY-P4133). Myristoyl-MEK1 Derived Peptide Inhibitor 1 inhibits ERK activation with an IC <sub>50</sub> of 10 μM <sup>[1]</sup> .	
IC <sub>50</sub> & Target	ERK2 10 μM (IC <sub>50</sub> , The in vitro inhibitory potency of the peptides is measured based on their ability to inhibit MEK1-mediated phosphorylation of ERK2. )	ERK 13 μM (IC <sub>50</sub> , The in vivo inhibitory potency is determined in both PMA-treated NIH 3T3 cells and NGF-stimulated PC12 cells.)

### REFERENCES

[1]. Kelemen BR, et al. Selective in vivo inhibition of mitogen-activated protein kinase activation using cell-permeable peptides. J Biol Chem. 2002 Mar 8;277(10):8741-8.

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

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