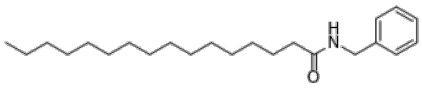
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Data Sheet

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Product Name	:	Macamide B
Cat. No.	:	PC-28717
CAS No.	:	74058-71-2
Molecular Formula	:	$C_{23}H_{39}NO$
Molecular Weight	:	345.57
Target	:	PI3K
Solubility	:	10 mM in DMSO



Biological Activity

Macamide B is an effective active ingredient of maca, exerts a neuroprotective effect on neonatal hypoxic-ischemic brain damage (HIBD), enhances **autophagy** through the **PI3K/AKT** signaling pathway.
Macamide B pretreatment significantly decreases brain damage and improves the recovery of neural function after HIBD.
Macamide B pretreatment activates the PI3K/AKT signaling pathway after HIBD, enhances autophagy, and reduces hypoxic-ischemic (HI)-induced apoptosis.
Macamide B reduces HIBD-induced apoptosis and exerts neuroprotective effects on neonatal HIBD.
Macamide B suppresses lung cancer progression potentially via the ATM signaling pathway.

References

Yang X, et et al. ***Mol Neurobiol.*** 2022 May;59(5):2776-2798.

Tao H, et al. ***Oncol Lett***. 2023 Feb 6;25(3):115.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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