Wortmannin

PI3 kinase inhibitor

Potent and selective inhibitor of phosphatidyl-inositol 3-kinase. Active in purified preparations and cytosolic fractions(IC $_{50}$ = 5nM) and is highly cell permeable. Inhibits fMLP induced PIP $_{3}$ and superoxide anion production (IC $_{50}$ = 50nM) in guinea pig neutrophils and blocks the metabolic effects of insulin in isolated rat adipocytes without affecting the insulin receptor tyrosine kinase activity. Covalently binds to PI 3-kinase and is selective, inhibiting other kinases such as PI 4-kinase and myosin light chain kinase at concentrations 100-fold higher than that required for inhibition of PI 3-kinase. The half-life of wortmannin in culture media is quite short (8-13 minutes), care should be taken to account for this decomposition when planning experiments. Markedly potentiates the LPS-induced nitric oxide (NO) production from macrophages. Induces *in vivo* Alzheimer-like hyperphosphorylation in tau.

Citations: 73

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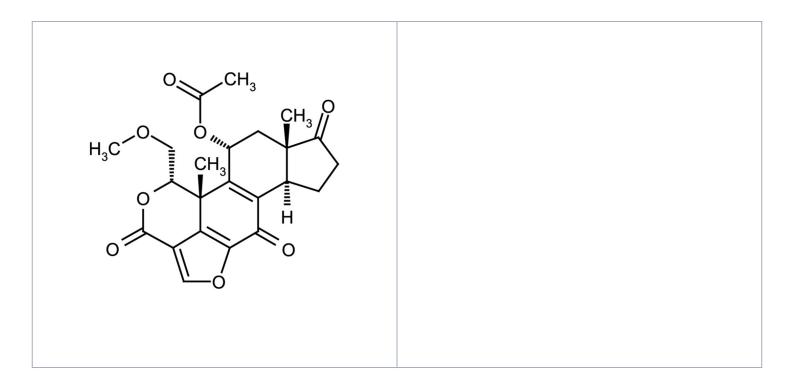
Ordering Information

Order Online »

BML-ST415-0001	1mg
BML-ST415-0005	5mg

Manuals, SDS & CofA

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Handling & Storage

Use/Stability As indicated on product label or CoA when stored as recommended. Make solutions

fresh immediately before use. DO NOT STORE SOLUTIONS.

Long Term Storage -20°C

Shipping Ambient Temperature

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name KY 12420

Appearance White to off-white solid.

CAS 19545-26-7

Couple Target PI3 kinase

Couple Type Inhibitor

Formula $C_{23}H_{24}O_8$

MI 14: 10053

MW 428.4

Purity ≥98% (HPLC, TLC)

RTECS CB9641000

Solubility Soluble in DMSO (50mg/ml), methanol (5mg/ml) or 100%

ethanol (25mg/ml).

Source Isolated from Penicillium wortmannii

Technical Info / Product Notes Replacement for ADI-HPK-114.



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