U-73122

Inhibitor of PLC activation

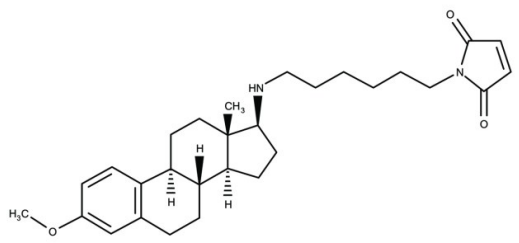
Inhibits agonist induced phospholipase C (PLC) activation (IC_{50}=1-2.1 µM) in human platelets. It also inhibits agonist induced down-regulation of muscarinic receptors in SK-N-SH neuroblastoma cells. It is a useful tool to investigate receptor-mediated PI turnover in signal transduction. It is a potent inhibitor of human neutrophil adhesion to biological surfaces as well as adhesion-dependent granule exocytosis and oxidative burst. Inhibits 5-lipoxygenase *in vivo* and *in vitro* (IC50 = 30nM for recombinant enzyme and 2.4µM for PMNL homogenates).

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Ordering Information Order Online »

BML-ST391-0005	5mg
BML-ST391-0025	25mg

Manuals, SDS & CofA View Online »


O
N
O
HN
CH3
H
H
H
H3C
O

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. U73122 is only sparingly soluble in aqueous media. Therefore the compounds are delivered to cells either after dissolving in organic solvents or complexing with serum proteins. Serum albumin (1-10mg/ml).Dissolve a weighed amount of U-73122 in methylene chloride or chloroform. Dispense in aliquots sufficient for one experiment into suitable vessels. Evaporate solvent with nitrogen. Stock solutions in DMSO or ethanol are stable for 2 months when stored at -20°C. Preferably dissolve just before use. Use caution in reusing stored DMSO solutions. Discard solutions that have turned to a pink color, which indicates a loss of inhibitor activity. Dried aliquots prepared from chloroform solutions are stable for up to 1 month when stored at -20°C.Useful range of concentrations for U-73122 is 0.1 to 10μM. The appropriate concentration will depend upon the cell type, cell density, medium concentration (the maleimide moiety of U-73122 may react with thiol containing compounds) and the particular cell parameter that is being measured.
Long Term Storage	Ambient
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	1-(6-((17β-3-methoxyestra-1,3,5(10)-trien-17-yl)amino)hexyl)-1H-pyrrole-2,5-dione
Appearance	white to off-white solid
CAS	112648-68-7
Couple Target	Lipoxygenase, Phospholipase, PLC
Couple Type	Inhibitor
Formula	$C_{29}H_{40}N_2O_3$
MW	464.7
Purity	≥98% (HPLC)
Solubility	Soluble in methylene chloride or chloroform. Slightly soluble in DMSO (2mg/ml) or 100% ethanol (1mg/ml), sparingly soluble in aqueous solutions.

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