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U-73122

Catalog No: tcsc2749

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:
112648-68-7

Formula:
$C_{29}H_{40}N_2O_3$

Pathway:
Metabolic Enzyme/Protease;Metabolic Enzyme/Protease

Target:
5-Lipoxygenase;Phospholipase

Purity / Grade:
>98%

Solubility:
DMSO : 12.5 mg/mL (26.90 mM; Need ultrasonic); H2O :

Observed Molecular Weight:
464.64

Product Description

U-73122 is an inhibitor of **phospholipase C (PLC)**, **phospholipase A2**, and **5-LO (5-lipoxygenase)**.

In Vitro: U-73122 potently inhibits receptor-coupled activation of PLC in membranes isolated from PMNs[1]. U-73122 inhibits N-

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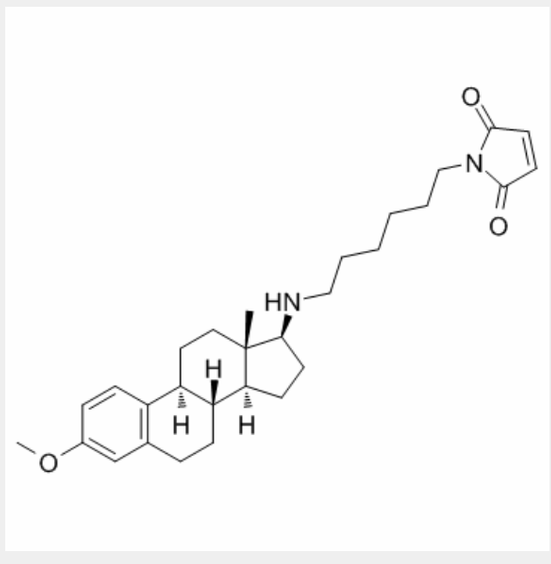
formyl-methionyl-leucyl-phenylalanine-induced aggregation of human polymorphonuclear neutrophils (PMN) and the associated production of IP_3 and diacyglycerol[2]. U-73122 markedly inhibits inositol phosphate release elicited by either oxotremorine-M or guanosine-5\'-O-(3-thiotriphosphate) than that induced by added Ca^{2+} in digitonin-permeabilized cells[3].

In Vivo: U73122 significantly attenuates TNF-α mRNA expression, has no effect on sham animals, but significantly increases heart work and rate of contraction and relaxation without affecting heart rate in endotoxemic mice[4]. U73122 (400 nM/μL) significantly reduces total lordosis durations, compared to vehicle infusions to the VTA, of oestradiol and progesterone-primed hamsters. VTA infusions of U73122 do not alter motor behaviour of hamsters in the activity monitor, but there is a significant effect of muscimol to decrease total number of beam breaks compared to hamsters administered SKF38393[5].



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