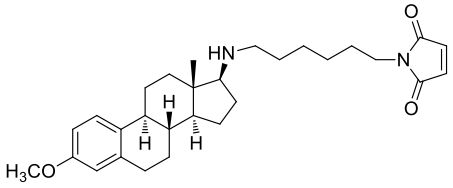
Catalog # 10-1061
U-73122

CAS# 112648-68-7

1-[6-[[(17β)-3-Methoxyestra-1,3,5(10)-trien-17-yl]amino]hexyl]-1*H*-pyrrole-2,5-dione

Lot # S104047



Inhibits receptor-coupled phospholipase C-dependent processes in platelets and neutrophils via interfering with G protein-PLC interaction.[1] A useful tool for probing the involvement of PI-PLC in receptor mediated cellular physiology and processes.[2-4] Cell permeable.

1) Bleasdale *et al.*, (1990), *Selective inhibition of receptor-coupled phospholipase C-dependent processes in human platelets and polymorphonuclear neutrophils;* J. Pharmacol. Exp. Ther. **255** 756

2) Zholos *et al*., (2004), *Phospholipase C, but not InsP3 or DAG,-dependent activation of the muscarinic receptor-operated cation current in guinea-pig ileal smooth muscle cells*; Br. J. Pharmacol. **141** 23

3) Jun *et al.*, (2004), *Diacylglycerol and its formation by phospholipase C regulate Rab- and SNARE dependent yeast vacuole fusion*; J. Biol. Chem. **279** 53186

4) Fernandez-Ulibarri *et al.*, (2007), *Diacylglycerol is required for the formation of COPI vesicles in the Golgi-to-ER transport pathway*; Mol. Biol. Cell **18** 3250

PHYSICAL DATA

Molecular Weight:	464.65
Molecular Formula:	$C_{29}H_{40}N_2O_3$
Purity:	>98% by TLC NMR: (Conforms)
Solubility:	Soluble in methylene chloride and chloroform. Slightly soluble in DMSO (up to 2 mg/ml) or ethanol (up to 1 mg/ml). For cell culture use U-73122 can be prepared in aqueous media by complexing the hydrophobic compound with BSA.
Physical Description:	White or off-white solid
Storage and Stability:	Store as supplied at room temperature for up to 1 year from the date of purchase. Use caution when attempting to reuse stored solutions in DMSO. Typically solutions in DMSO can be stored at -20°C for approximately 2 months. Any solutions that develop a pink color after storage should be discarded. Pink color corresponds with a loss of inhibitory activity. It is generally preferable to prepare solutions immediately before use if at all possible. Dried aliquots prepared from chloroform or methylene chloride solutions are stable at -20°C for up to one month.

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