

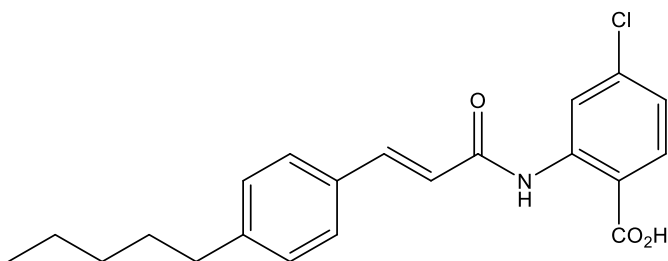
Catalog # 10-1107

ONO-RS-082

CAS# 99754-06-0

2-(4-Pentylcinnamoyl)amino-4-chlorobenzoic acid; PACA

Lot # FBA6278



Reversible inhibitor of Ca²⁺-independent phospholipase A₂ (PLA₂), IC₅₀=7 μM for guinea pig lung PLA₂.¹ Inhibits epinephrine-induced thromboxane production in platelets.¹ Inhibition of PLA₂ by ONO-RS-032 disrupts endosome tubule formation and maintenance of the Golgi complex.²⁻⁴ Prevents *Xenopus* oocyte maturation at stage V.⁵

- 1) Banga *et al.* (1986), *Activation of phospholipases A and C in human platelets exposed to epinephrine: role of glycoproteins IIb/IIIa and dual role of epinephrine*; Proc.Natl.Acad.Sci.USA **83** 9197
- 2) De Figueiredo *et al.* (2001), *Inhibition of transferrin recycling and endosome tubulation by phospholipase A2 antagonists*; J.Biol.Chem. **276** 47361
- 3) Schmidt *et al.* (2010), *A role for phospholipase A2 activity in membrane tubule formation and TGN trafficking*; Traffic **11** 1530
- 4) Bechler and Brown (2014), *Gβ1γ2 activates phospholipase A2-dependent Golgi membrane tubule formation*; Front.Cell.Dev.Biol. **28** 0004
- 5) Islam *et al.* (2005), *The distinct stage-specific effects of 2-(p-amylocinnamoyl)amino-4-chlorobenzoic acid on the activation of MAP kinase and Cdc2 kinase in Xenopus oocyte maturation*; Cell Signal. **17** 507

PHYSICAL DATA

Molecular Weight:	371.86
Molecular Formula:	C ₂₁ H ₂₂ ClNO ₃
Purity:	98% (TLC)
	NMR: (Conforms)
Solubility:	Soluble in DMSO (25 mg/ml); ethanol (10 mg/mL)
Physical Description:	White to off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Store DMSO or ethanol solutions at -20°C for up to 3 months.

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