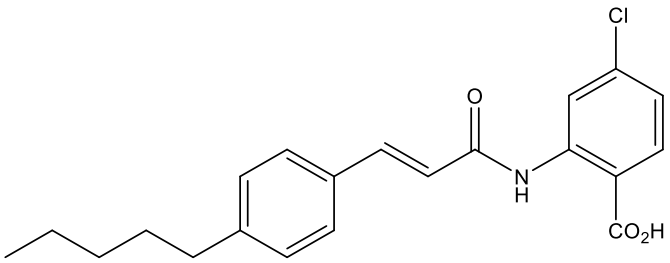
**Catalog # 10-1107**

**ONO-RS-082**

CAS# 99754-06-0

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

Lot # FBM3031




Reversible inhibitor of $Ca^{2+}$-independent phospholipase $A_2$ ($PLA_2$), $IC_{50}$=7 μM for guinea pig lung PLA2.[1] Inhibits epinephrine-induced thromboxane production in platelets.[1] Inhibition of $PLA_2$ 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-amylcinnamoyl)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)<br>NMR: (Conforms) |
| Solubility: | Soluble in DMSO (25 mg/ml); ethanol (10 mg/mL) |
| Physical Description: | 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 -20ºC for up to 3 months. |

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