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## Product Information

### CP-24879 hydrochloride

Product Number **C 9115**  
Store at Room Temperature

CAS RN: 10141-51-2

Synonyms: p-isopentoxylaniline hydrochloride

Molecular Formula:  $C_{11}H_{18}ClNO$   
Molecular Weight: 215.72

#### Product Description

Symptoms of essential fatty acid deficiency include immune system depression and a general state of inflammatory inhibition. CP-24879 is an inhibitor of arachidonic acid biosynthesis acting via the inhibition of  $\Delta 5/\Delta 6$  desaturase. These enzymes are being probed as an alternative target for reduction of inflammation. Mice injected with CP-24879 at 3 mg/kg had a reduction of liver arachidonate content of approximately 50%. Mouse mastocytoma cells treated with CP-24879 showed decreased arachidonic acid content and decreased synthesis of leukotriene C4. Stimulating the cells in the presence of exogenous arachidonic acid restored production of leukotriene C4, indicating that endogenous arachidonic acid was a limiting substrate.<sup>1</sup>

#### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

#### Preparation Instructions

Soluble in DMSO at 22 mg/mL.

#### Storage/Stability

Store at room temperature.

#### References

1. Obukowicz, M.G., et al., Identification and characterization of a novel  $\Delta 6/\Delta 5$  fatty acid desaturase inhibitor as a potential anti-inflammatory agent., *Biochem Pharmacol.*, **55**, 1045-58, (1998)..
2. Levin, G., et al., Differential metabolism of dihomo- $\gamma$ -linolenic acid and arachidonic acid by cyclo-oxygenase-1 and cyclo-oxygenase-2: implications for cellular synthesis of prostaglandin E1 and prostaglandin E2., *Biochem. J.*, **365**, 489-496 (2002).

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