

## Product Information

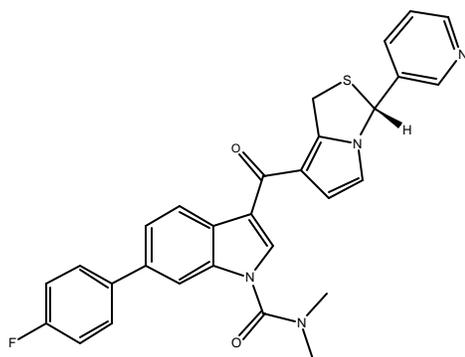
### A- 85783

Product Number **A 1471**

Storage Temperature 2-8 °C

CAS #: 161395-33-1

Synonyms: (R)-6-(4-Fluorophenyl)-N,N-dimethyl-3-[[3-(3-pyridinyl)-1H,3H-pyrrolo[1,2-c]thiazol-7-yl]carbonyl]-1H-indole-1-carboxamide



#### Product Description

Molecular Formula: C<sub>29</sub> H<sub>23</sub> F N<sub>4</sub> O<sub>2</sub> S

Molecular Weight: 510.58 (anhydrous)

Supplied as tan solid.

Purity >98% (HPLC)

Melting point: 185.3-186.5 °C

Platelet Activating Factor (PAF) is a lipid signaling molecule derived from glycerophosphocholines that activates many cell types including platelets, monocytes, polymorphonuclear leukocytes, mast cells, and vascular endothelium cells.<sup>1</sup> The majority of PAF effects are mediated through a single G protein-linked transmembrane receptor, PAF-R.

Several studies suggest that PAF and PAF-R are involved in keratinocyte function and cutaneous inflammation. Systemically administered PAF-R antagonists can inhibit PAF-induced intradermal inflammation.<sup>2</sup>

A-85783 is a neutral lipophilic PAF-R antagonist that is a potent competitive and reversible inhibitor of [<sup>3</sup>H]PAF binding to rabbit platelet membranes (IC<sub>50</sub>= 3.8 nM). It blocks PAF-induced serotonin release from rabbit platelets. Systemic administration of A-85783 or its prodrug, ABT-299, inhibits PAF-induced cutaneous vascular permeability in the rat. Thus, this PAF receptor antagonist may be useful for studying inflammatory dermatoses.

#### Preparation Instructions

A-85783 is soluble in DMSO at 13 mg/ml. It is insoluble in water.

#### Storage/Stability

Store tightly sealed at 2-8 °C, protected from light.

#### References

1. Dy, L. C., et al., Augmentation of ultraviolet B radiation-induced tumor necrosis factor production by the epidermal platelet-activating factor receptor. *J. Biol. Chem.*, **274**, 26917-26921 (1999).
2. Travers, J., et al., Antiinflammatory activity of the platelet-activating factor receptor antagonist A-85783. *Arch. Dermatol. Res.*, **290**, 569-573 (1998).

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