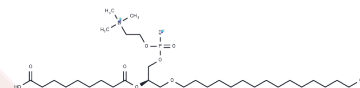


## Azelaoyl PAF

## Chemical Properties

CAS No. :	354583-69-0
Formula:	C33H66NO9P
Molecular Weight:	651.85
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Azelaoyl PAF is a potent PPAR $\gamma$ agonist that competitively binds thiazolidinediones with potency comparable to rosiglitazone. In atherosclerosis studies, Azelaoyl PAF promotes the uptake of oxidized low-density lipoprotein (oxLDL) by macrophages by upregulating CD36 expression. In fibroblasts from Friedreich's ataxia (FRDA) patients, Azelaoyl PAF significantly increased mRNA and protein levels of ferritin.
Targets(IC50)	Integrin,PPAR
In vitro	<b>Methods:</b> Human neuroblastoma cells SKNBE and primary fibroblasts from skin biopsies of patients with Friedreich's ataxia (FRDA) and healthy controls were treated with the PPAR- $\gamma$ agonist azelaoyl PAF. <b>Results:</b> Azelaoyl PAF significantly increased intracellular frataxin levels by two-fold in the neuroblastoma cell line SKNBE and fibroblasts from FRDA patients, and azelaoyl PAF increased frataxin via a transcriptional mechanism.[1]

## Solubility Information

Solubility	Ethanol: 10 mg/mL (15.34 mM),Sonication is recommended. PBS (pH 7.2): 6 mg/mL (9.2 mM),Sonication is recommended. DMSO: 6 mg/mL (9.2 mM),Sonication is recommended. DMF: 20 mg/mL (30.68 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.5341 mL	7.6705 mL	15.341 mL
5 mM	0.3068 mL	1.5341 mL	3.0682 mL
10 mM	0.1534 mL	0.767 mL	1.5341 mL
50 mM	0.0307 mL	0.1534 mL	0.3068 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Marmolino D, et al. PPAR-gamma agonist Azelaoyl PAF increases frataxin protein and mRNA expression: new implications for the Friedreich's ataxia therapy. *Cerebellum*. 2009 Jun;8(2):98-103.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481