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**Product Data Sheet**


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Product Name: (±)trans-2,5-bis-(3,4,5-Trimethoxyphenyl)-1,3-dioxolane

Cat. No.: GC15528

**Chemical Properties**

Cas. No. 116673-45-1

Chemical Name *trans*-(±)-2,4-bis(3,4,5-trimethoxyphenyl)-1,3-dioxolaneSMILES COC1=CC([C@H]2O[C@H](C3=CC(OC)=C(OC)C(OC)=C3)OC2)=CC(OC)=C1OCFormula C<sub>21</sub>H<sub>26</sub>O<sub>8</sub>

M.Wt 406.4

Solubility ≤35mg/ml in ethanol;50mg/ml in DMSO;50mg/ml in dimethyl formamide

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

(±)trans-2,5-bis-(3,4,5-Trimethoxyphenyl)-1,3-dioxolane, also known as trans-BTP Dioxolane, is a PAF receptor antagonist [1].

Platelet activating factor (PAF), a phospholipid mediator of inflammation, is secreted by several cell types including arterial endothelial cells, and can activate polymorphonuclear leucocytes and monocytes via specific cell surface receptors. PAF also stimulates the production of active oxygen species by human monocyte - derived macrophages. PAF play important roles in a variety of pathophysiological states including acute allergy, inflammation, asthma, gastrointestinal ulceration, and toxic shock [1].

(±)trans-2,5-bis-(3,4,5-Trimethoxyphenyl)-1,3-dioxolane is a PAF receptor antagonist. In the rabbit washed platelet assay, (±)trans-2,5-bis-(3,4,5-Trimethoxyphenyl)-1,3-

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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dioxolane showed good competitive PAF antagonism with  $K_i$  value of 0.3  $\mu\text{M}$ , whereas the cis-isomer was much less active.

### Reference:

[1]. Corey, E.J., Chen, C.P., and Parry, M.J. Dual binding modes to the receptor for platelet activating factor (PAF) of anti-PAF trans-2,5-diarylfurans. Tetrahedron Letters 29, 2899-2902 (1988).

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