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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

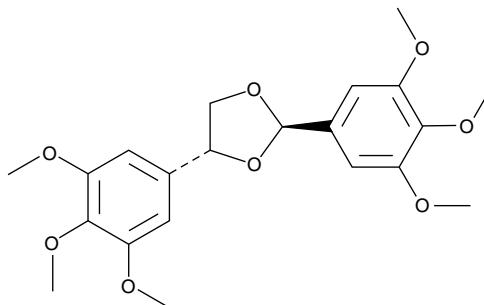
Product Information



(±)*trans*-2,5-bis-(3,4,5-Trimethoxyphenyl)-1,3-dioxolane

Item No. 60950

CAS Registry No:	116673-45-1
Formal Name:	<i>trans</i> -(±)-2,4-bis(3,4,5-trimethoxyphenyl)-1,3-dioxolane
Synonym:	<i>trans</i> -BTP Dioxolane
MF:	C ₂₁ H ₂₆ O ₈
FW:	406.4
Purity:	≥98%
Stability:	≥1 year at -20°C
Supplied as:	A crystalline solid



Laboratory Procedures

For long term storage, we suggest that (±)*trans*-2,5-bis-(3,4,5-Trimethoxyphenyl)-1,3-dioxolane (*trans*-BTP dioxolane) be stored as supplied at -20°C. It will be stable for at least one year.

trans-BTP dioxolane is supplied as a crystalline solid. A stock solution may be made by dissolving the *trans*-BTP dioxolane in an organic solvent purged with an inert gas. *trans*-BTP dioxolane is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of *trans*-BTP dioxolane in ethanol is approximately 35 mg/ml, but in DMSO and dimethyl formamide it is approximately 50 mg/ml. *trans*-BTP dioxolane will be stable for at least six months in these solvents if stored at -20°C.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. *trans*-BTP dioxolane is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, *trans*-BTP dioxolane should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. *trans*-BTP dioxolane has a solubility of approximately 2.5 mg/ml in a 1:3 solution of DMSO:PBS (pH 7.2) and 100 µg/ml in a 1:10 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

trans-BTP dioxolane is a PAF receptor antagonist. This compound demonstrates competitive antagonism of the PAF receptor in a rabbit washed platelet assay ($K_i = 0.3 \mu\text{M}$).¹

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 Lett.* **29**, 2899-2902 (1988).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/60950

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY; NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

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Cayman Chemical

Mailing address

1180 E. Ellsworth Road
Ann Arbor, MI
48108 USA

Phone

(800) 364-9897
(734) 971-3335

Fax

(734) 971-3640

E-Mail

custserv@caymanchem.com

Web

www.caymanchem.com