



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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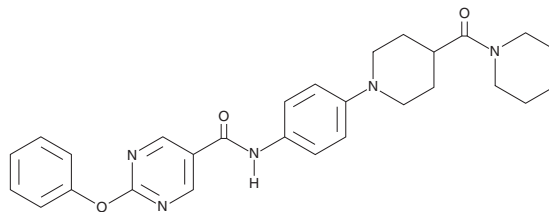
# PRODUCT INFORMATION



**TFC 007**

Item No. 17971

**CAS Registry No.:** 927878-49-7  
**Formal Name:** N-[4-[4-(4-morpholinylcarbonyl)-1-piperidinyl]phenyl]-2-phenoxy-5-pyrimidinecarboxamide  
**MF:** C<sub>27</sub>H<sub>29</sub>N<sub>5</sub>O<sub>4</sub>  
**FW:** 487.6  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 218, 311 nm  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

## Laboratory Procedures

TFC 007 is supplied as a crystalline solid. A stock solution may be made by dissolving the TFC 007 in the solvent of choice, which should be purged with an inert gas. TFC 007 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of TFC 007 in these solvents is approximately 1 and 10 mg/ml, respectively.

## Description

TFC 007 is an inhibitor of hematopoietic prostaglandin D synthase (H-PGDS; IC<sub>50</sub> = 0.083 μM).<sup>1</sup> It is selective for H-PGDS over lipocalin PGDS (L-PGDS) and microsomal PGE<sub>2</sub> synthase (mPGES) at 100 μM. It is also selective for H-PGDS over COX-1, COX-2, 5-lipoxygenase (5-LO), leukotriene C<sub>4</sub> (LTC<sub>4</sub>) synthase, and thromboxane (TX) synthase, as well as the histamine H<sub>1</sub> and cysteinyl leukotriene 1 (CysLT<sub>1</sub>) receptors, at 10 μM. TFC 007 (30 mg/kg) inhibits antigen-induced increases in the production of PGD<sub>2</sub> (Item No. 12010) in nasal cavity lavage fluid and reduces nasal blockage in a guinea pig model of allergic rhinitis.

## Reference

1. Nabe, T., Kuriyama, Y., Mizutani, N., *et al.* Inhibition of hematopoietic prostaglandin D synthase improves allergic nasal blockage in guinea pigs. *Prostaglandins Other Lipid Mediat.* **95(1-4)**, 27-34 (2011).

### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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