



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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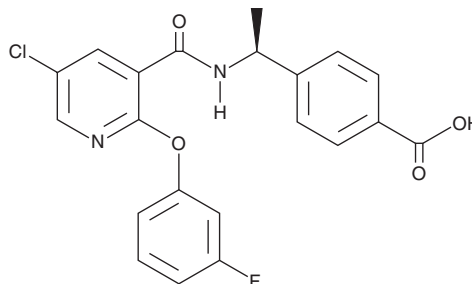
# PRODUCT INFORMATION



**AAT-008**

Item No. 21810

**CAS Registry No.:** 847727-81-5  
**Formal Name:** 4-[(1S)-1-[[[5-chloro-2-(3-fluorophenoxy)-3-pyridinyl]carbonyl]amino]ethyl]-benzoic acid  
**MF:** C<sub>21</sub>H<sub>16</sub>ClFN<sub>2</sub>O<sub>4</sub>  
**FW:** 414.8  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 234, 293 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

AAT-008 is supplied as a crystalline solid. A stock solution may be made by dissolving the AAT-008 in the solvent of choice. AAT-008 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of AAT-008 in ethanol is approximately 0.5 mg/ml and approximately 30 mg/ml in DMSO and DMF.

## Description

AAT-008 is an orally bioavailable and potent antagonist of the prostaglandin E<sub>2</sub> (PGE<sub>2</sub>) receptor subtype 4 (EP<sub>4</sub>; IC<sub>50</sub> = 16.3 nM in a human EP<sub>4</sub> functional assay).<sup>1</sup> It is selective for EP<sub>4</sub> with IC<sub>50</sub> values of 2.4, 1,890, >20,000, and >20,000 nM for binding to human recombinant EP<sub>4</sub>, EP<sub>2</sub>, EP<sub>1</sub>, and EP<sub>3</sub>, respectively. AAT-008 has potent binding affinity for human, rat, and dog EP<sub>4</sub> (K<sub>i</sub>s = 0.97, 6.1, and 38 nM, respectively) and suppresses PGE<sub>2</sub>-induced elevation of intracellular cAMP with an antagonistic potency (pA<sub>2</sub>) of 1.1 nM *in vitro*. Oral administration of AAT-008 reduces carrageenan-induced mechanical hyperalgesia in rats in a dose-dependent manner.

## Reference

1. Okumura, Y., Yamagishi, T., Nukui, S., *et al.* Discovery of AAT-008, a novel, potent, and selective prostaglandin EP<sub>4</sub> receptor antagonist. *Bioorg. Med. Chem. Lett.* **27(5)**, 1186-1192 (2017).

### 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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