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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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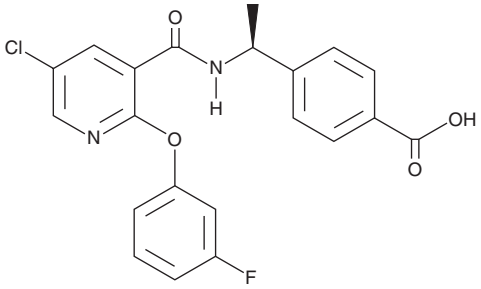
PRODUCT INFORMATION

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:	$C_{21}H_{16}ClFN_2O_4$
FW:	414.8
Purity:	≥98%
UV/Vis.:	λ_{max}: 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_2 (PGE_2) receptor subtype 4 (EP_4; IC_{50} = 16.3 nM in a human EP_4 functional assay).[1] It is selective for EP_4 with IC_{50} values of 2.4, 1,890, >20,000, and >20,000 nM for binding to human recombinant EP_4, EP_2, EP_1, and EP_3, respectively. AAT-008 has potent binding affinity for human, rat, and dog EP_4 (K_is = 0.97, 6.1, and 38 nM, respectively) and suppresses PGE_2-induced elevation of intracellular cAMP with an antagonistic potency (pA_2) 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 EP4 receptor antagonist. *Bioorg. Med. Chem. Lett.* **27(5)**, 1186-1192 (2017).

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