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# Produktinformation

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- 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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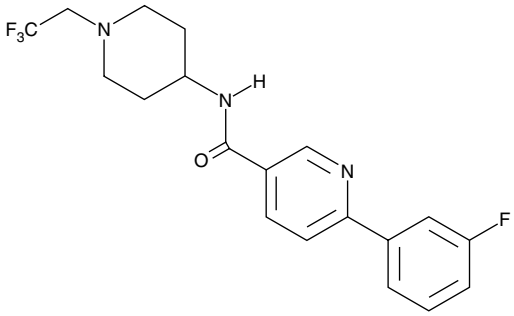
# Product Information

## Prostaglandin D Synthase (hematopoietic-type) Inhibitor I

*Item No. 16256*

**CAS Registry No.:** 1033836-12-2
**Formal Name:** 6-(3-fluorophenyl)-N-[1-(2,2,2-trifluoroethyl)-4-piperidinyl]-3-pyridinecarboxamide
**Synonym:** H-PGDS Inhibitor I
**MF:** $C_{19}H_{19}F_4N_3O$
**FW:** 381.4
**Purity:** ≥98%
**Stability:** ≥2 years at -20°C
**Supplied as:** A crystalline solid
**UV/Vis.:** $\lambda_{max}$: 260, 287 nm




### Laboratory Procedures

For long term storage, we suggest that prostaglandin D synthase (hematopoietic-type) (H-PGDS) inhibitor I be stored as supplied at -20°C. It should be stable for at least two years.

H-PGDS inhibitor I is supplied as a crystalline solid. A stock solution may be made by dissolving the H-PGDS inhibitor I in the solvent of choice. H-PGDS inhibitor I is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of H-PGDS inhibitor I in ethanol is approximately 1 mg/ml and approximately 5 mg/ml in DMSO and DMF.

H-PGDS inhibitor I is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Prostaglandin $D_2$ is synthesized by H-PGDS in mast cells and is released in large quantities during allergic and asthmatic anaphylaxis. Thus, H-PGDS is an important target for the development of inhibitors for therapeutic use against these diseases. H-PGDS inhibitor I selectively blocks H-PGDS ($IC_{50}$s = 0.7 and 32 nM in enzyme and cellular assays, respectively) with little activity against the related human enzymes L-PGDS, mPGES, COX-1, COX-2, and 5-LOX.[1] It is orally bioavailable and has been shown to dampen airway hyper-responsiveness in a model of antigen-induced airway response in allergic sheep.[1]

### Reference


1. Carron, C.P., Trujillo, J.I., Olson, K.L., *et al.* Discovery of an oral potent selective inhibitor of hematopoietic prostaglandin D synthase (HPGDS). *ACS Med. Chem. Lett.* **1**, 59-63 (2010).


### Related Products

For a list of related products please visit: www.caymanchem.com/catalog/16256

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