

Product Datasheet

PF-06840003

Catalog No. **BP-02488** · CAS **198474-05-4** · Form **free base** · Physical state **solid** · Color **Light yellow to yellow** · Version **1.0** · Revision **2026-09-10**

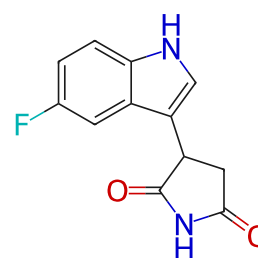
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Target Indoleamine 2,3-Dioxygenase (IDO)	Research area Cancer
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Molecular formula **C₁₂H₉FN₂O₂**

Molecular weight **232.2105**

STRUCTURE



DESCRIPTION

PF-06840003 (EOS200271) is a highly selective, orally active and brain-penetrant IDO-1 inhibitor with IC₅₀s of 0.41 μM, 0.59 μM, and 1.5 μM for hIDO-1, dIDO-1, and mIDO-1, respectively .

BIOLOGICAL ACTIVITY

In Vitro

PF-06840003 reverses IDO-1-induced T-cell anergy in vitro[1]. PF-06840003 shows activity both in the HeLa assay (IC₅₀=1.8 μM) as well as in the LPS/ INFγ-stimulated THP1 cells (IC₅₀=1.7 μM).

In Vivo

PF-06840003 reduces intratumoral kynurenine levels in mice by >80% and inhibits tumor growth in multiple preclinical syngeneic models in mice, in combination with immune checkpoint inhibitors. PF-06840003 has favorable predicted human pharmacokinetic properties, including a predicted t_{1/2} of 16-19 hours.

SOLUBILITY

Soluble in DMSO

REFERENCES

[1].Tumang J, et al. PF-06840003: a highly selective IDO-1 inhibitor that shows good in vivo efficacy in combination with immune checkpoint inhibitors. [abstract]. In: Proceedings of the 107th Annual Meeting of the American Association for Cancer Research; 2016 Apr 16-20; New Orleans, LA. Philadelphia (PA): AACR; Cancer Res 2016;76(14 Suppl):Abstract nr4863.

[2].Indoleamine 2,3-Dioxygenase (IDO-1) Inhibitor 3-(5-Fluoro-1H-indol-3-yl)pyrrolidine-2,5-dione (EOS200271/PF-06840003) and Its Characterization as a Potential Clinical Candidate. J Med Chem. 2017 Dec 14;60(23):9617-9629.

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