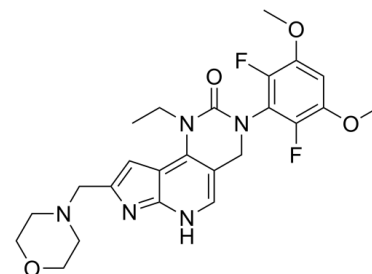


## Data Sheet

<b>Product Name:</b>	Pemigatinib
<b>Cat. No.:</b>	CS-0039499
<b>CAS No.:</b>	1513857-77-6
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>27</sub> F <sub>2</sub> N <sub>5</sub> O <sub>4</sub>
<b>Molecular Weight:</b>	487.50
<b>Target:</b>	FGFR
<b>Pathway:</b>	Protein Tyrosine Kinase/RTK
<b>Solubility:</b>	DMSO : 25 mg/mL (ultrasonic;warming;heat to 60°C)



### BIOLOGICAL ACTIVITY:

Pemigatinib (INCB054828) is an orally active, selective **FGFR** inhibitor with **IC<sub>50</sub>s** of 0.4 nM, 0.5 nM, 1.2 nM, 30 nM for FGFR1, FGFR2, FGFR3, FGFR4, respectively. Pemigatinib has the potential for cholangiocarcinoma<sup>[1][2]</sup>. *In Vitro*: This hypothesis is corroborated with in vitro cell-based studies in which cells expressing FGFR2-CLIP1 fusion are sensitive to Pemigatinib (INCB054828; IC<sub>50</sub> value of 10.16 nM), whereas cells with the addition of the N549H mutation are resistant to Pemigatinib (IC<sub>50</sub> value of 1527.57 nM)<sup>[3]</sup>.

### References:

- [1]. Arudra K, et al. Calcinosis cutis dermatologic toxicity associated with fibroblast growth factor receptor inhibitor for the treatment of Wilms tumor. J Cutan Pathol. 2018 Oct;45(10):786-790.
- [2]. Roskoski R Jr, et al. The role of fibroblast growth factor receptor (FGFR) protein-tyrosine kinase inhibitors in the treatment of cancers including those of the urinary bladder. Pharmacol Res. 2020 Jan;151:104567.
- [3]. Krook MA, et al. Tumor heterogeneity and acquired drug resistance in FGFR2-fusion-positive cholangiocarcinoma through rapid research autopsy. Cold Spring Harb Mol Case Stud. 2019 Aug 1;5(4).

### CAIndexNames:

2H-Pyrrolo[3',2':5,6]pyrido[4,3-d]pyrimidin-2-one, 3-(2,6-difluoro-3,5-dimethoxyphenyl)-1-ethyl-1,3,4,7-tetrahydro-8-(4-morpholinylmethyl)-

### SMILES:

CCN(C(N(C(C(F)=C(OC)C=C1OC)=C1F)C2)=O)C(C2=CN3)=C4C3=NC(CN5CCOCC5)=C4

**Caution: Product has not been fully validated for medical applications. For research use only.**

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