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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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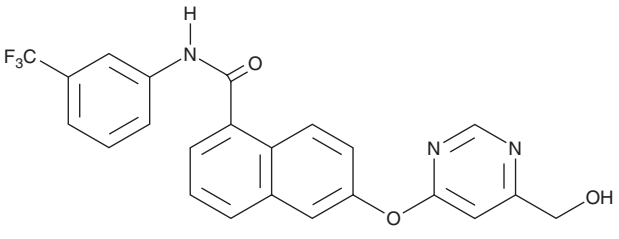
PRODUCT INFORMATION

BFH772

Item No. 21386

CAS Registry No.:	890128-81-1
Formal Name:	6-[[6-(hydroxymethyl)-4-pyrimidinyl]oxy]-N-[3-(trifluoromethyl)phenyl]-1-naphthalenecarboxamide
MF:	$C_{23}H_{16}F_3N_3O_3$
FW:	439.4
Purity:	≥95%
UV/Vis.:	λ_{max}: 227 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

BFH772 is supplied as a crystalline solid. A stock solution may be made by dissolving the BFH772 in the solvent of choice, which should be purged with an inert gas. BFH772 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of BFH772 in these solvents is approximately 30 mg/ml.

BFH772 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, BFH772 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. BFH772 has a solubility of approximately 0.33 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

BFH772 is an inhibitor of VEGF receptor 2 (VEGFR2; IC_{50} = 0.0027 µM for the human receptor).[1] It is selective for human VEGFR2 over mouse VEGFR2 and human VEGFR1 and VEGFR3 (IC_{50}s = 1.5, 1.7, and 1.1 µM, respectively), as well as 40-fold selective over B-RAF, RET, and Tie2. BFH772 inhibits VEGF-induced proliferation of human umbilical vein endothelial cells (HUVECs; IC_{50} = <0.01 nM). It inhibits VEGF-induced increases in tissue weight and Tie2 levels in an angiogenesis chamber implant model in mice when administered at doses of 1 and 3 mg/kg per day. BFH772 (3 mg/kg per day) inhibits primary tumor and metastasis growth in a B16 melanoma mouse model.

Reference

1. Bold, G., Schnell, C., Furet, P., *et al.* A novel potent oral series of VEGFR2 inhibitors abrogate tumor growth by inhibiting angiogenesis. *J. Med. Chem.* **59(1)**, 132-146 (2016).

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