SZABO SCANDIC

Part of Europa Biosite

Produktinformation

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

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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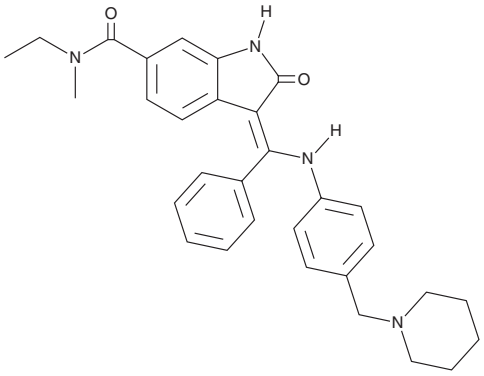
PRODUCT INFORMATION

BIBF 0775

Item No. 37777



CAS Registry No.:	334951-90-5
Formal Name:	(3Z)-N-ethyl-2,3-dihydro-N-methyl-2-oxo-3-[phenyl[[4-(1-piperidinylmethyl)phenyl]amino]methylene]-1H-indole-6-carboxamide
MF:	$C_{31}H_{34}N_4O_2$
FW:	494.6
Purity:	≥98%
UV/Vis.:	λ_{max}: 283, 387 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

BIBF 0775 is supplied as a solid. A stock solution may be made by dissolving the BIBF 0775 in the solvent of choice, which should be purged with an inert gas. BIBF 0775 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of BIBF 0775 in these solvents is approximately 2, 5, and 10 mg/ml, respectively.

Description

BIBF 0775 is an inhibitor of TGF-β receptor type 1 (ALK5; IC_{50} = 34 nM).[1] It is selective for ALK5 over VEGFR2 and PDGFRα (IC_{50}s = 1,447 and 890 nM, respectively), as well as a panel of 30 other kinases at 1 µM.[1,2] BIBF 0775 inhibits the phosphorylation of SMAD2 and SMAD3 in HaCaT cells (EC_{50} = 105 nM) and is not cytotoxic to HaCaT cells (IC_{50} = >1,000 nM).[1]

References

1. Roth, G.J., Heckel, A., Brandl, T., *et al.* Design, synthesis, and evaluation of indolinones as inhibitors of the transforming growth factor β receptor I (TGFβRI). *J. Med. Chem.* **53(20)**, 7287-7295 (2010).
2. Roth, G.J., Heckel, A., Colbatzky, F., *et al.* Design, synthesis, and evaluation of indolinones as triple angiokinase inhibitors and the discovery of a highly specific 6-methoxycarbonyl-substituted indolinone (BIBF 1120). *J. Med. Chem.* **52(14)**, 4466-4480 (2009).

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