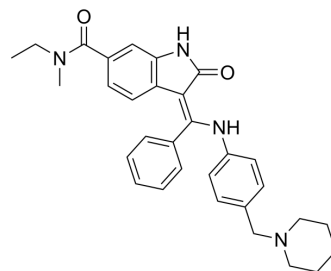


## BIBF0775

<b>Cat. No.:</b>	HY-13783		
<b>CAS No.:</b>	334951-90-5		
<b>Molecular Formula:</b>	C <sub>31</sub> H <sub>34</sub> N <sub>4</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	494.63		
<b>Target:</b>	TGF-β Receptor		
<b>Pathway:</b>	TGF-beta/Smad		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 62.5 mg/mL (126.36 mM; Need ultrasonic)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.0217 mL	10.1086 mL	20.2171 mL
	5 mM		0.4043 mL	2.0217 mL	4.0434 mL
	10 mM		0.2022 mL	1.0109 mL	2.0217 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.08 mg/mL (4.21 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (4.21 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (4.21 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

BIBF0775 is a potent and selective transforming growth factor β (TGFβ) type I receptor (Alk5) inhibitor with an IC<sub>50</sub> of 34 nM.

#### IC<sub>50</sub> & Target

IC<sub>50</sub>: 34 nM (Alk5)<sup>[1]</sup>

### REFERENCES

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[1]. Roth GJ, et al. Design, synthesis, and evaluation of indolinones as inhibitors of the transforming growth factor  $\beta$  receptor I (TGF $\beta$ RI). J Med Chem. 2010 Oct 28;53(20):7287-95.

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

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