

Product Name: Motesanib Revision Date: 04/27/2023

### **Product Data Sheet**

## **Motesanib**

Cat. No.: A3632

CAS No.: 453562-69-1 Formula: C22H23N5O

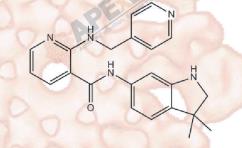
**M.Wt:** 373.46

**Synonyms:** AMG706; AMG 706; AMG-706

Target: Tyrosine Kinase

Pathway: c-Kit

Storage: Store at -20°C



## Solvent & Solubility

≥42 mg/mL in DMSO; ≥24 mg/mL in EtOH with ultrasonic; insoluble in H2O

Mass Solvent 1mg 5mg 10mg Preparing Concentration In Vitro Stock Solutions 1 mM 2.6777 mL 13.3883 mL 26.7766 mL 5 mM 2.6777 mL 0.5355 mL 5.3553 mL 10 mM 0.2678 mL 1.3388 mL 2.6777 mL

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

# **Biological Activity**

Shortsummary	Inhibitor of Flk-1/Flt-4/PDGFR-/c-Kit	
IC <sub>50</sub> & Target	2 nM (VEGFR1), 3 nM (VEGFR2), 6 nM (VEGFR3)	
In Vitro	Cell Viability Assay	
	Cell Line:	HUVECs
	Preparation method:	This compound is soluble in DMSO. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below - 20 °C for several months.
	Reacting conditions:	2 hrs
	Applications:	In HUVECs, Motesanib significantly inhibited vascular endothelial growth factor

		(VEGF)-induced cell proliferation, with an IC50 value of 10 nM. However, it
		showed little effect on basic fibroblast growth factor (bFGF)-induced cell
		proliferation, with an IC50 value of > 3,000 nM. Similarly, Motesanib potently
		inhibited platelet-derived growth factor (PDGF)-induced cell proliferation as
		well as stem cell factor (SCF)-induced c-kit phosphorylation, with IC50 values
	Control of the Contro	of 207 nM and 37 nM, respectively.
In Vivo	Animal experiment	and the state of t
	Animal models:	A rat model of corneal angiogenesis, and nude mice bearing A431 cells
	Dosage form:	100 mg/kg; p.o.; q.d. or b.i.d.
	Applications:	At the dose of 100 mg/kg, Motesanib significantly inhibited VEGF-induced
		vascular permeability in a time-dependent manner. In a rat model of corneal
		angiogenesis, Motesanib (q.d. or b.i.d.) substantially inhibited VEGF-induced
		angiogenesis in a dose-dependent manner. In nude mice bearing A431 cells,
		Motesanib also dose-dependently induced tumor regression by selectively
	.0	targeting neovascularization in tumor cells.
	Other notes: July Other	Please test the solubility of all compounds indoor, and the actual solubility may
	Entrope International Control of the	slightly differ with the theoretical value. This is caused by an experimental
	Chieve Patrecu	system error and it is normal.

### **Product Citations**

See more customer validations on www.apexbt.com.

#### References

[1]. Polverino A, Coxon A, Starnes C, et al. AMG 706, an oral, multikinase inhibitor that selectively targets vascular endothelial growth factor, platelet-derived growth factor, and kit receptors, potently inhibits angiogenesis and induces regression in tumor xenografts. Cancer Res. 2006;66(17):8715-21.

#### Caution

#### FOR RESEARCH PURPOSES ONLY

#### NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

### **APExBIO Technology**

#### www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054. Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com



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