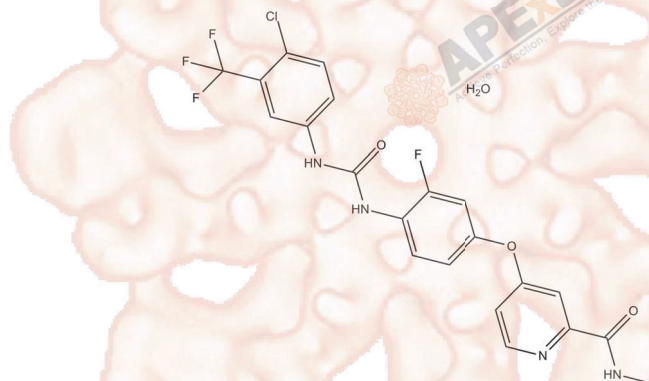


Regorafenib monohydrate

Cat. No.:	A3751
CAS No.:	1019206-88-2
Formula:	C ₂₁ H ₁₇ ClF ₄ N ₄ O ₄
M.Wt:	500.83
Synonyms:	BAY 73-4506 monohydrate
Target:	Tyrosine Kinase
Pathway:	c-RET
Storage:	Store at -20°C



Solvent & Solubility

≥ 25.05 mg/mL in DMSO, insoluble in H₂O

In Vitro

Preparing Stock Solutions	Solvent Concentration	Mass		
		1mg	5mg	10mg
	1 mM	1.9967 mL	9.9834 mL	19.9669 mL
	5 mM	0.3993 mL	1.9967 mL	3.9934 mL
	10 mM	0.1997 mL	0.9983 mL	1.9967 mL

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

Biological Activity

Shortsummary

Tyrosine kinase inhibitor

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	Human umbilical vascular endothelial and human aortic smooth muscle cells
Preparation method:	The solubility of this compound in DMSO is >25.1mg/mL. 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:	IC ₅₀ : 2.6 and 146 nM
Applications:	Regorafenib effectively inhibited proliferation of VEGF and FGF-2-stimulated

human umbilical vascular endothelial and human aortic smooth muscle cells stimulated with the BB dimeric glycoprotein of PDGF with IC50 values of 2.6 and 146 nM, respectively.

Animal experiment

Animal models: CRC, breast cancer, and renal cell carcinoma mouse xenograft models

Dosage form: 10 to 100 mg/kg

Applications: In CRC, breast cancer, and renal cell carcinoma mouse xenograft models, Regorafenib monohydrate inhibited tumor growth in a dose-dependent way. Regorafenib also decreased pERK1/2, suggesting that the antiproliferative effects of Regorafenib were through RAF/MEK/ERK signaling cascade inhibition.

Other notes: Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

In Vivo

Product Citations

See more customer validations on www.apexbt.com.

References

[1] Crona DJ, Keisler MD, Walko CM. Regorafenib: a novel multitargeted tyrosine kinase inhibitor for colorectal cancer and gastrointestinal stromal tumors. *Ann Pharmacother*. 2013 Dec;47(12):1685-96.

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 APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term 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.

APEX BIO 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

