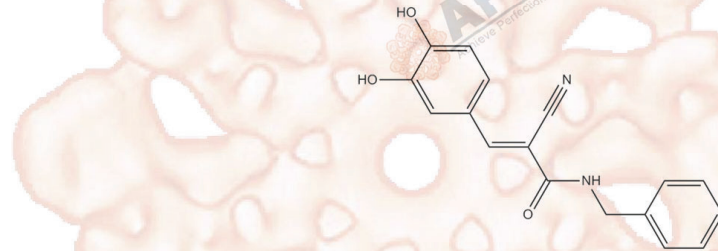


Product Data Sheet

AG-490

Cat. No.:	A4139
CAS No.:	133550-30-8
Formula:	C17H14N2O3
M.Wt:	294.3
Synonyms:	Tyrphostin B42
Target:	JAK/STAT Signaling
Pathway:	EGFR
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; ≥14.7 mg/mL in DMSO; ≥4.73 mg/mL in EtOH with gentle warming and ultrasonic

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	3.3979 mL	16.9895 mL	33.9789 mL
	5 mM	0.6796 mL	3.3979 mL	6.7958 mL
	10 mM	0.3398 mL	1.6989 mL	3.3979 mL

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

Biological Activity

Shortsummary

JAK2/EGFR inhibitor

IC₅₀ & Target

~10 μM (JAK2), 0.1 μM (EGFR), 13.5 μM (ErbB2)

In Vitro

Cell Viability Assay

Preparation method:

In Vivo

Animal experiment

Applications:

Product Citations

1. Zhou H, Sun Y, et al. "Paris saponin VII extracted from trillium tschonoskii suppresses proliferation and induces apoptosis of human colorectal cancer cells." J Ethnopharmacol. 2019 Jul 15;239:111903.PMID:31047966
2. Lan H, Su Y, et al. "Melatonin protects circulatory death heart from ischemia/reperfusion injury via the JAK2/STAT3 signalling pathway." Life Sci. 2019 Jul 1;228:35-46.PMID:31028804
3. MXinwei Feng1, Junfeng Lu2, et al. "Mycobacterium smegmatis Induces Neurite Outgrowth and Differentiation in an Autophagy-Independent Manner in PC12 and C17.2 Cells." Front. Cell. Infect. Microbiol., 19 June 2018.
4. Wang L, Zhang F, et al. "CAFs enhance paclitaxel resistance by inducing EMT through the IL 6/JAK2/STAT3 pathway." Oncol Rep. 2018 May;39(5):2081-2090.PMID:29565447

See more customer validations on www.apexbt.com.

References

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. 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.

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