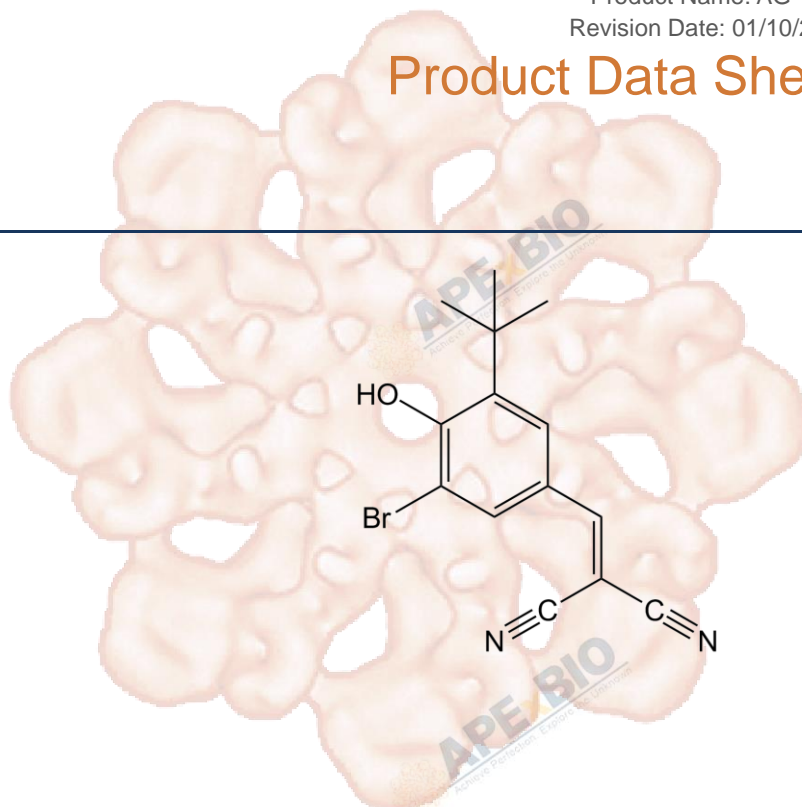


# Product Data Sheet

## AG-1024

<b>Cat. No.:</b>	A2673
<b>CAS No.:</b>	65678-07-1
<b>Formula:</b>	C <sub>14</sub> H <sub>13</sub> BrN <sub>2</sub> O
<b>M.Wt:</b>	305.17
<b>Synonyms:</b>	
<b>Target:</b>	Tyrosine Kinase
<b>Pathway:</b>	IGF1R
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

insoluble in H<sub>2</sub>O; ≥11.23 mg/mL in EtOH; ≥15.25 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	<b>Concentration</b>			
	<b>1 mM</b>	3.2769 mL	16.3843 mL	32.7686 mL
	<b>5 mM</b>	0.6554 mL	3.2769 mL	6.5537 mL
	<b>10 mM</b>	0.3277 mL	1.6384 mL	3.2769 mL

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

### Biological Activity

Shortsummary

Selective IGF-1R inhibitor

IC<sub>50</sub> & Target

7 μM (IGF-1R)

In Vitro

#### Cell Viability Assay

Cell Line: MCF-7

Preparation method: The solubility of this compound in DMSO is >10 mM. 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: 10 nM, 5 days for cell proliferation inhibition 10 nM, 48 hours for apoptosis

		induction
	Applications:	The Tyrphostin AG-1024 induced a marked decrease of cell proliferation in a time-dependent manner. It also potently induced cell apoptosis with a 20.1 % of apoptotic cells.
In Vivo	<b>Animal experiment</b>	
	Animal models:	Female nude mice implanted with Ba/F3-p210 cells
	Dosage form:	Intraperitoneal injection, 30 µg in 100 µl, once per day for 10 days
	Applications:	After injection with Ba/F3-p210 cells (Bcr-Abl expressing cells), nude mice were injected after 6 days with PBS 0.1 ml (control) or Tyrphostin AG1024 30 µg/100 µl (1 µl of 980 µM). The growth of the Ba/F3-p210 xenografts was significantly delayed when mice were treated with Tyrphostin AG1024.
	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.

## Product Citations

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

- [1] Wen B, Deutsch E, Marangoni E, et al. Tyrphostin AG 1024 modulates radiosensitivity in human breast cancer cells. *British journal of cancer*, 2001, 85(12): 2017.
- [2] Deutsch E, Maggiorella L, Wen B, et al. Tyrosine kinase inhibitor AG1024 exerts antileukaemic effects on STI571-resistant Bcr-Abl expressing cells and decreases AKT phosphorylation. *British journal of cancer*, 2004, 91(9): 1735-1741.

## 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.*

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**APEX BIO Technology**

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