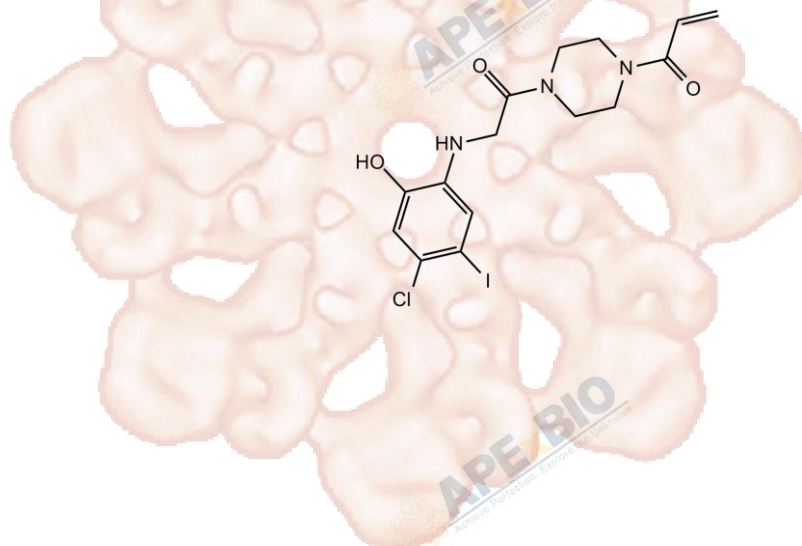


# Product Data Sheet

## K-Ras(G12C) inhibitor 12

<b>Cat. No.:</b>	B4876
<b>CAS No.:</b>	1469337-95-8
<b>Formula:</b>	C <sub>15</sub> H <sub>17</sub> ClIIN <sub>3</sub> O <sub>3</sub>
<b>M.Wt:</b>	449.67
<b>Synonyms:</b>	
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

≥8.98 mg/mL in DMSO with gentle warming

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	<b>Concentration</b>			
	<b>1 mM</b>	2.2239 mL	11.1193 mL	22.2385 mL
	<b>5 mM</b>	0.4448 mL	2.2239 mL	4.4477 mL
	<b>10 mM</b>	0.2224 mL	1.1119 mL	2.2239 mL

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

### Biological Activity

Shortsummary

allosteric inhibitor of K-Ras(G12C)

IC<sub>50</sub> & Target

#### Cell Viability Assay

In Vitro

Cell Line:	lung cancer cell lines H23, H358 and H1792
Preparation method:	Limited solubility. 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:	72 h, 10 μM

	Applications:	K-Ras(G12C) inhibitor 12 is a highly effective Ras inhibitor and its EC50 value in H1792 cells is 0.32 $\mu$ M. It selectively binds to an oncogenic mutant K-Ras(G12C) in an irreversible manner without affecting the activity of wild-type Ras. After treatment with K-Ras(G12C) inhibitor 12, K-Ras(G12C)-mutant cells exhibit decreased viability and increased apoptosis comparing to cells lacking this mutation.
In Vivo	<b>Animal experiment</b>	
	Applications:	

## Product Citations

1. Chen Z, Yang D, et al. "Final-2 targeted glycolysis mediated apoptosis and autophagy in human lung adenocarcinoma cells but failed to inhibit xenograft in nude mice." Food Chem Toxicol. 2019 Aug;130:1-11.PMID:31054290

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## References

[1]. Ostrem J M, Peters U, Sos M L, et al. K-Ras (G12C) inhibitors allosterically control GTP affinity and effector interactions[J]. Nature, 2013, 503(7477): 548-551.

## 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**

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