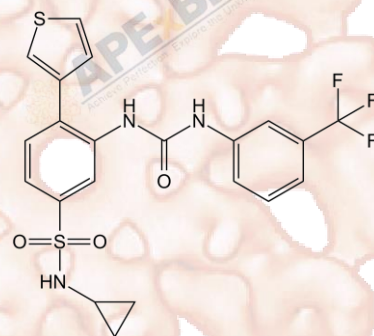


## Product Data Sheet

### AGI-6780

<b>Cat. No.:</b>	A3146
<b>CAS No.:</b>	1432660-47-3
<b>Formula:</b>	C <sub>21</sub> H <sub>18</sub> F <sub>3</sub> N <sub>3</sub> O <sub>3</sub> S <sub>2</sub>
<b>M.Wt:</b>	481.51
<b>Synonyms:</b>	AGI 6780; AGI6780
<b>Target:</b>	Metabolism
<b>Pathway:</b>	Dehydrogenase
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

≥22.25 mg/mL in DMSO; insoluble in H<sub>2</sub>O; ≥100.8 mg/mL in EtOH

In Vitro

	Solvent	Mass Concentration	Mass		
			1mg	5mg	10mg
Preparing Stock Solutions		1 mM	2.0768 mL	10.3840 mL	20.7680 mL
		5 mM	0.4154 mL	2.0768 mL	4.1536 mL
		10 mM	0.2077 mL	1.0384 mL	2.0768 mL

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

### Biological Activity

Shortsummary

IDH2/R140Q mutation inhibitor

IC<sub>50</sub> & Target

23±1.7 nM (IDH2-R140Q), 190±8.1 nM (IDH2-WT)

In Vitro

#### Cell Viability Assay

Cell Line:	Primary human AML cells
Preparation method:	The solubility of this compound in DMSO is > 22.25 mg/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:	5 μM up to 10 days

	Applications:	IDH2 mutant samples treated with AGI-6780 showed a dose-dependent reduction in the amounts of extracellular and intracellular (R)-2-hydroxyglutarate. In the presence AGI-6780, a burst of cell proliferation was also observed only in the IDH2/R140Q mutant samples. Furthermore, AGI-6780 did not exert a cytotoxic effect as the number of viable, more mature CD45-positive cells increased in the presence of AGI-6780 only in the IDH2/R140Q mutant samples whereas the IDH2/WT samples remained unchanged.
In Vivo	<b>Animal experiment</b>	
	Applications:	

## Product Citations

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

## References

[1] Wang F1, Travins J, DeLaBarre B, Penard-Lacronique V, Schalm S, Hansen E, Straley K, Kernysky A, Liu W, Gliser C, Yang H, Gross S, Artin E, Saada V, Mylonas E, Quivoron C, Popovici-Muller J, Saunders JO, Salituro FG, Yan S, Murray S, Wei W, Gao Y, Dang L, Dorsch M, Agresta S, Schenkein DP, Biller SA, Su SM, de Botton S, Yen KE. Targeted inhibition of mutant IDH2 in leukemia cells induces cellular differentiation. Science. 2013 May 3;340(6132):622-6.

## 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.



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