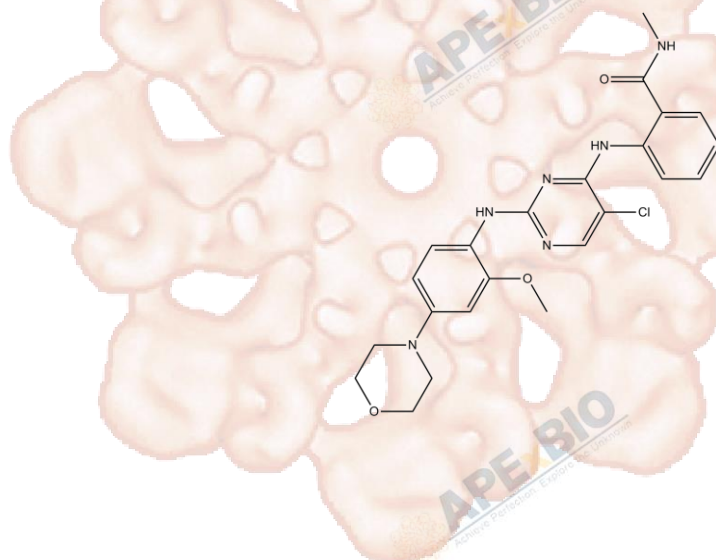


# Product Data Sheet

## TAE226 (NVP-TAE226)

<b>Cat. No.:</b>	A8557
<b>CAS No.:</b>	761437-28-9
<b>Formula:</b>	C <sub>23</sub> H <sub>25</sub> ClN <sub>6</sub> O <sub>3</sub>
<b>M.Wt:</b>	468.94
<b>Synonyms:</b>	TAE 226;TAE-226
<b>Target:</b>	Tyrosine Kinase
<b>Pathway:</b>	FAK
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

≥23.45 mg/mL in DMSO; insoluble in H<sub>2</sub>O; insoluble in EtOH

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	<b>Concentration</b>			
	<b>1 mM</b>	2.1325 mL	10.6623 mL	21.3247 mL
	<b>5 mM</b>	0.4265 mL	2.1325 mL	4.2649 mL
	<b>10 mM</b>	0.2132 mL	1.0662 mL	2.1325 mL

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

### Biological Activity

Shortsummary

FAK inhibitor,potent and ATP-competitive

IC<sub>50</sub> & Target

3.5 nM (PYK2), 5.5 nM (FAK), 43.5 nM (Insulin Receptor), 140 nM (IGF-1R), 160 nM (c-Met)

In Vitro

#### Cell Viability Assay

Cell Line:	Human glioma cell lines U87, U87/EGFR, U87/vIII and U251
Preparation method:	The solubility of this compound in DMSO is > 23.5mg/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:	1 and 10 μM

	Applications:	In all human glioma cell lines tested, TAE226 significantly inhibited tumor growth in a concentration-dependent manner. Compared with U87 cells, U87/EGFR and U87/VIII cells with a higher level of p-FAK (Tyr397) were more sensitive to TAE226.
In Vivo	<b>Animal experiment</b>	
	Animal models:	Mice bearing intracranial glioma xenografts
	Dosage form:	50 and 75 mg/kg; p.o.; q.d. for 5 days and off for 2 days, for a duration of 4 weeks
	Applications:	In U87-engrafted mice, TAE226 at 50 or 75 mg/kg extended the median survival by 6 and 7 days, respectively. In LN229-engrafted mice, TAE226 significantly prolonged the median survival by 19 days.
	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

1. Menanteau-Ledouble S, Lawrence ML, et al. "Invasion and replication of *Yersinia ruckeri* in fish cell cultures." *BMC Vet Res*. 2018 Mar 9;14(1):81. PMID:29523132

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## References

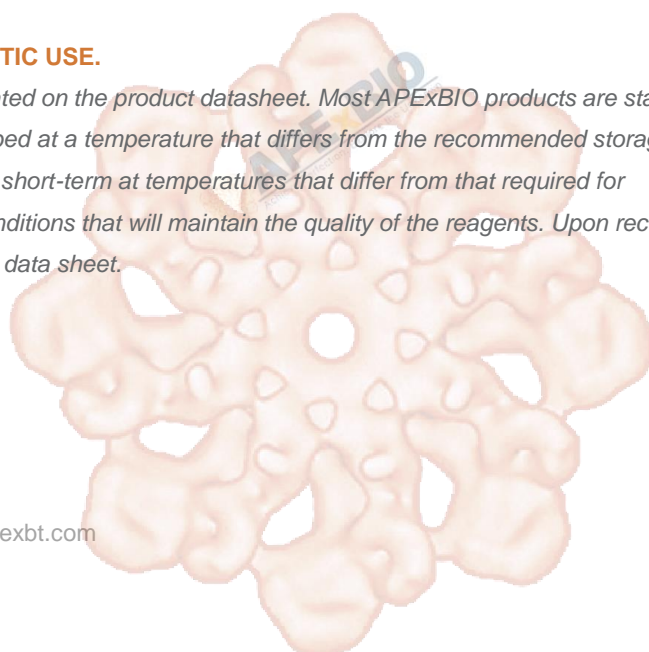
[1]. Liu, T.J., et al., Inhibition of both focal adhesion kinase and insulin-like growth factor-I receptor kinase suppresses glioma proliferation in vitro and in vivo. *Mol Cancer Ther*, 2007. 6(4): p. 1357-67.

## 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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