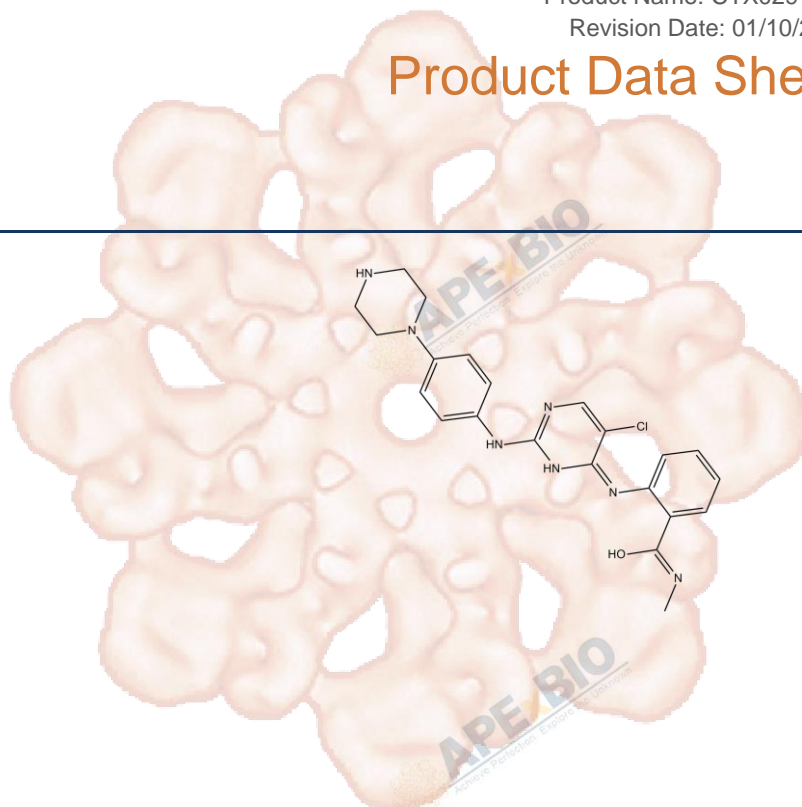


# Product Data Sheet

## CTX0294885

<b>Cat. No.:</b>	B5843
<b>CAS No.:</b>	1439934-41-4
<b>Formula:</b>	C <sub>22</sub> H <sub>24</sub> ClN <sub>7</sub> O
<b>M.Wt:</b>	437.93
<b>Synonyms:</b>	
<b>Target:</b>	Tyrosine Kinase
<b>Pathway:</b>	
<b>Storage:</b>	Store at -20°C



### Solvent & Solubility

≥21.9 mg/mL in DMSO; insoluble in EtOH; insoluble in H<sub>2</sub>O

In Vitro

Preparing Stock Solutions	Mass			
	Solvent Concentration	1mg	5mg	10mg
	1 mM	2.2835 mL	11.4173 mL	22.8347 mL
	5 mM	0.4567 mL	2.2835 mL	4.5669 mL
	10 mM	0.2283 mL	1.1417 mL	2.2835 mL

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

### Biological Activity

Shortsummary

Pan-kinase inhibitor

IC<sub>50</sub> & Target

In Vitro

#### Cell Viability Assay

Cell Line: MDA-MB-231 Cells

Preparation method: The solubility of this compound in DMSO is > 21.9 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: 1 μM

	Applications:	CTX-0294885 exhibited inhibitory activity against a broad range of kinases in vitro, and further developed it into a Sepharose-supported kinase capture reagent. Large-scale CTx-0294885-based affinity purification followed by LC-MS/MS led to the identification of 235 protein kinases from MDA-MB-231 cells, including all members of the AKT family that had not been previously detected by other broad-spectrum kinase inhibitors.
In Vivo	<b>Animal experiment</b>	
	Applications:	
	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]. Zhang L, Holmes I P, Hochgrafe F, et al. Characterization of the novel broad-spectrum kinase inhibitor CTx-0294885 as an affinity reagent for mass spectrometry-based kinome profiling[J]. Journal of proteome research, 2013, 12(7): 3104-3116.

## 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. 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.

**APExBIO Technology**



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