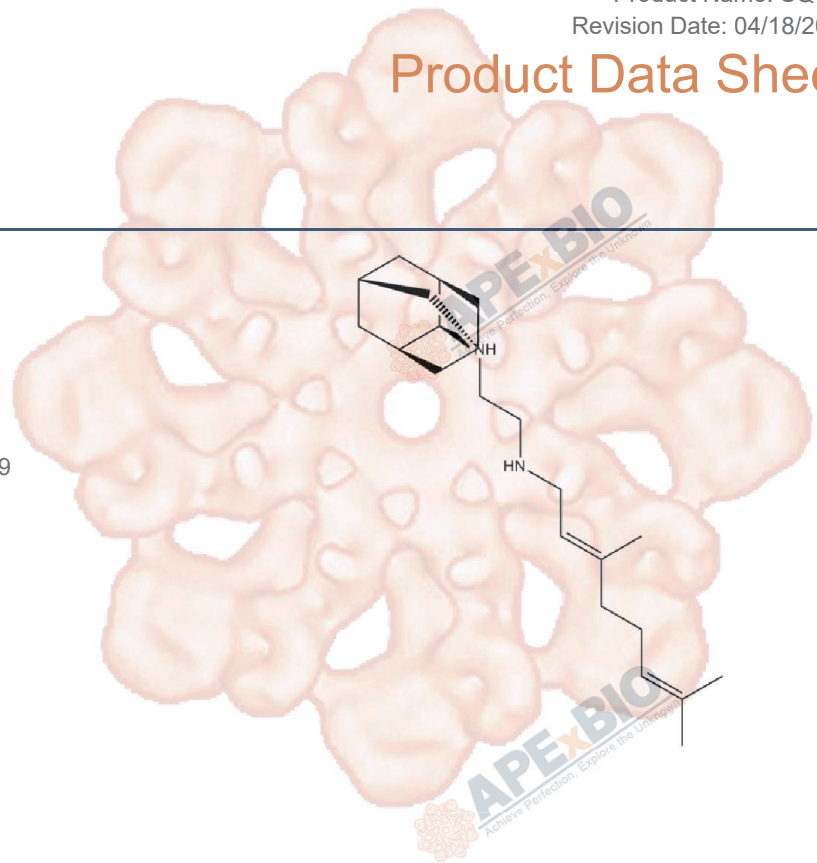


# Product Data Sheet

## SQ109

<b>Cat. No.:</b>	A3834
<b>CAS No.:</b>	502487-67-4
<b>Formula:</b>	C <sub>22</sub> H <sub>38</sub> N <sub>2</sub>
<b>M.Wt:</b>	330.55
<b>Synonyms:</b>	NSC 722041;SQ-109;SQ 109
<b>Target:</b>	Microbiology & Virology
<b>Pathway:</b>	Antibiotic
<b>Storage:</b>	Store at -20°C



## Solvent & Solubility

Soluble in DMSO

In Vitro	Preparing Stock Solutions	Mass			
		Solvent Concentration	1mg	5mg	10mg
			1 mM	3.0253 mL	15.1263 mL
		5 mM	0.6051 mL	3.0253 mL	6.0505 mL
		10 mM	0.3025 mL	1.5126 mL	3.0253 mL

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

## Biological Activity

Shortsummary	Antibiotic for treatment of pulmonary TB	
IC <sub>50</sub> & Target	1-0.5 μM (MIC) (Mycobacterium)	
In Vitro	<b>Cell Viability Assay</b>	
	Preparation method:	
In Vivo	<b>Animal experiment</b>	
	Applications:	

## Product Citations

1. Kamariza M, Shieh P, et al. "Rapid detection of Mycobacterium tuberculosis in sputum with a solvatochromic trehalose probe." Sci Transl Med. 2018 Feb 28;10(430). pii: eaam6310.PMID:29491187

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## References

## 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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