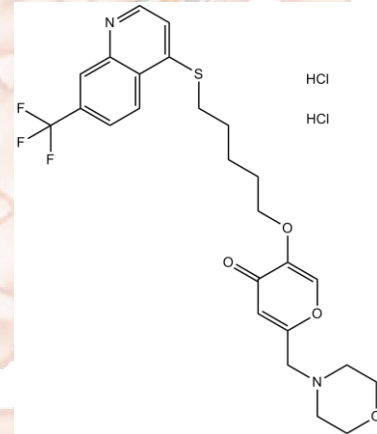


# Product Data Sheet

## EHT 1864

<b>Cat. No.:</b>	B5487
<b>CAS No.:</b>	754240-09-0
<b>Formula:</b>	C <sub>25</sub> H <sub>29</sub> Cl <sub>2</sub> F <sub>3</sub> N <sub>2</sub> O <sub>4</sub> S
<b>M.Wt:</b>	581.48
<b>Synonyms:</b>	
<b>Target:</b>	Neuroscience
<b>Pathway:</b>	Amyloid $\beta$
<b>Storage:</b>	Store at -20°C



## Solvent & Solubility

$\geq 29.05$  mg/mL in DMSO with gentle warming;  $\geq 16.53$  mg/mL in H<sub>2</sub>O;  $\geq 2.1$  mg/mL in EtOH with gentle warming and ultrasonic

In Vitro

Preparing Stock Solutions	Solvent Concentration	Mass		
		1mg	5mg	10mg
	1 mM	1.7197 mL	8.5987 mL	17.1975 mL
	5 mM	0.3439 mL	1.7197 mL	3.4395 mL
	10 mM	0.1720 mL	0.8599 mL	1.7197 mL

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

## Biological Activity

Shortsummary

Rac family small GTPases inhibitor

 IC<sub>50</sub> & Target

 (K<sub>d</sub>=40 nM) (Rac1), (K<sub>d</sub>=50 nM) (Rac1b), (K<sub>d</sub>=60 nM) (Rac2), (K<sub>d</sub>=250 nM) (Rac3)

In Vitro

### Cell Viability Assay

Cell Line:	INS-1 832/13 cells (Insulin-Producing-Cell Line)
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:	1 h
	Applications:	10 $\mu$ M EHT 1864 shows a complete inhibition of GSIS (Glucose-stimulated insulin secretion) and inhibits GSIS at 10-20mM glucose. It also suppresses a glucose-induced membrane association of Rac1 and glucose-induced ERK1/2 phosphorylation and activation.
In Vivo	<b>Animal experiment</b>	
	Applications:	

## Product Citations

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

## References

1. Sidarala V, Veluthakal R, Syeda K, Kowluru A. EHT 1864, a small molecule inhibitor of Ras-related C3 botulinum toxin substrate 1 (Rac1), attenuates glucose-stimulated insulin secretion in pancreatic  $\beta$ -cells. Cell Signal. 2015 Jun;27(6):1159-67.

## 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 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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