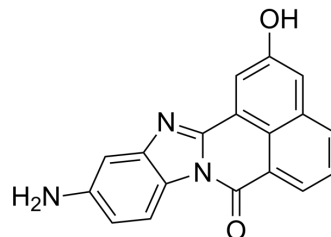


## TIM-098a

Cat. No.:	HY-162388
Molecular Formula:	C <sub>18</sub> H <sub>11</sub> N <sub>3</sub> O <sub>2</sub>
Molecular Weight:	301.3
Target:	AAK1
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	TIM-098a is a selective AAK1 inhibitor with an IC <sub>50</sub> of 0.24 μM. TIM-098a has no inhibitory activity against CaMKK isoforms. TIM-098a inhibits AAK1-regulated endocytosis by suppressing AAK1 kinase activity <sup>[1]</sup> .			
<b>IC<sub>50</sub> &amp; Target</b>	AAK1 0.24 μM (IC <sub>50</sub> )	GAK 1.04 μM (IC <sub>50</sub> )	BIKE 5.99 μM (IC <sub>50</sub> )	STK16 7.15 μM (IC <sub>50</sub> )
<b>In Vitro</b>	<p>TIM-098a can inhibit AAK1 activity in transfected cultured cells (IC<sub>50</sub>=0.87 μM)<sup>[1]</sup>.</p> <p>TIM-098a (0.26, 0.82, 2.6, 26 μM; for 6 h) suppresses AAK1-catalyzed Thr156 phosphorylation of GST-AP2μ2 (145-162) in a concentration-dependent manner in AAK1/GST-AP2μ2 (145-162) expressing COS-7 cells<sup>[1]</sup>.</p> <p>TIM-098a (10 μM; for 6 h) recovers the number of early endosomes in AAK1-transfected cells to the level of untransfected wild type cells<sup>[1]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>			

### REFERENCES

[1]. Akari Yoshida, et al. Development of a novel AAK1 inhibitor via Kinobeads-based screening. Sci Rep. 2024 Mar 20;14(1):6723.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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