# TA-316

Cat. No.:	HY-112486		
CAS No.:	1429321-13	-0	
Molecular Formula:	C <sub>28</sub> H <sub>25</sub> BrN <sub>4</sub> C	D <sub>5</sub> S <sub>2</sub>	
Molecular Weight:	641.56		
Target:	Cyclin G-as	sociated	Kinase (GAK)
Pathway:	Cell Cycle/I	DNA Dam	age
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

## SOLVENT & SOLUBILITY

In Vitro

### DMSO : 50 mg/mL (77.94 mM; ultrasonic and warming and heat to 60°C)

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.5587 mL	7.7935 mL	15.5870 mL
	5 mM	0.3117 mL	1.5587 mL	3.1174 mL
	10 mM	0.1559 mL	0.7794 mL	1.5587 mL

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

BIOLOGICAL ACTIV			
Description	TA-3166 (Megakaryocytes/platelets inducing agent) is a novel chemically synthesized c-MPL agonist (CMA) and thrombopoietin (TPO) receptor agonist. TA-316 enhances ex vivo platelet generation from human-induced pluripotent stem (iPS) cells <sup>[1][2]</sup> .		
In Vitro	TA-316 (0.01-1000 nM; 4 nM, respectively <sup>[2]</sup> . ?TA-316 (800 nM; 10 day ?TA-316 (200 nM; 4 days MCE has not independer Cell Viability Assay <sup>[2]</sup>	days) stimulates UT-7/TPO and Ba/F3-HuMpl cells proliferation, with the EC <sub>50</sub> values of 0.3 and 0.65 s) promotes biased megakaryopoiesis and upregulated MK lineage markers <sup>[2]</sup> . ) preferentially enhances VEGFA and FGF2 expression <sup>[2]</sup> . ntly confirmed the accuracy of these methods. They are for reference only.	
	Cell Line:	UT-7/TPO and Ba/F3-HuMpl cells	
	Concentration:	0.01-1000 nM	



Incubation Time:	4 days
Result:	Stimulated UT-7/TPO and Ba/F3-HuMpl cell proliferation.

## REFERENCES

[1]. METHOD FOR PRODUCING MEGAKARYOCYTES AND/OR PLATELETS FROM PLURIPOTENT STEM CELLS.WO2013051625A1.

[2]. Aihara A, et al. Novel TPO receptor agonist TA-316 contributes to platelet biogenesis from human iPS cells. Blood Adv. 2017;1(7):468-476. Published 2017 Feb 28.

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

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