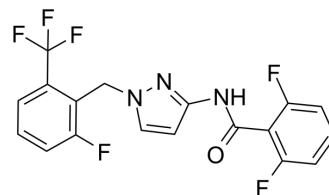


## GSK-5498A

<b>Cat. No.:</b>	HY-12521												
<b>CAS No.:</b>	1253186-49-0												
<b>Molecular Formula:</b>	C <sub>18</sub> H <sub>11</sub> F <sub>6</sub> N <sub>3</sub> O												
<b>Molecular Weight:</b>	399.29												
<b>Target:</b>	CRAC Channel												
<b>Pathway:</b>	Membrane Transporter/Ion Channel												
<b>Storage:</b>	<table border="0"> <tr> <td>Powder</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td></td> <td>4°C</td> <td>2 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>2 years</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 year</td> </tr> </table>	Powder	-20°C	3 years		4°C	2 years	In solvent	-80°C	2 years		-20°C	1 year
Powder	-20°C	3 years											
	4°C	2 years											
In solvent	-80°C	2 years											
	-20°C	1 year											



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 100 mg/mL (250.44 mM)  
 \* "≥" means soluble, but saturation unknown.

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.5044 mL	12.5222 mL	25.0445 mL
5 mM	0.5009 mL	2.5044 mL	5.0089 mL
10 mM	0.2504 mL	1.2522 mL	2.5044 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
 Solubility: ≥ 3 mg/mL (7.51 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 3 mg/mL (7.51 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

GSK-5498A is a selective CRAC channel inhibitor (IC<sub>50</sub>: 1 μM). GSK-5498A inhibits mediators release from mast cells and pro-inflammatory cytokines release from T cells. GSK-5498A can be used in the research of inflammatory disorders<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

CRAC channel<sup>[1]</sup>

#### In Vitro

GSK-5498A (1 and 10 μM) inhibits calcium influx through CRAC channels in human embryonic kidney cells<sup>[1]</sup>.  
 GSK-5498A (1 nM-10 μM) inhibits the thapsigargin-evoked fluorescence signal (pIC<sub>50</sub>: 6.3) in Jurkat cells, measured using the calcium sensitive dye: Fluo4-AM<sup>[1]</sup>.  
 GSK-5498A (1 nM-10 μM) evokes concentration-dependent inhibition of Cytostim-evoked interferon-γ and IL-5 production in

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PBMCs<sup>[1]</sup>.

GSK-5498A (1  $\mu$ M-10  $\mu$ M) inhibits degranulation of rat tissue-resident mast cells<sup>[1]</sup>.

GSK-5498A (10 nM-10  $\mu$ M) inhibits mouse and rat T-cell cytokine (IL-2) release<sup>[1]</sup>.

GSK-5498A (0-10  $\mu$ M) shows high selectivity for CRAC channels over other ion channels, enzymes and G-protein coupled receptors<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## CUSTOMER VALIDATION

- Nat Commun. 2020 Oct 30;11(1):5489.
- Adv Sci (Weinh). 2020 Aug 20;7(18):1903746.
- J Physiol. 2017 May 15;595(10):3203-3218.

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

## REFERENCES

[1]. Rice LV, et al. Characterization of selective Calcium-Release Activated Calcium channel blockers in mast cells and T-cells from human, rat, mouse and guinea-pig preparations. Eur J Pharmacol. 2013 Mar 15;704(1-3):49-57.

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

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