



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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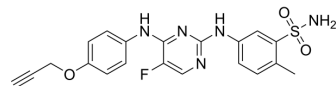
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## JAK-IN-10

<b>Cat. No.:</b>	HY-U00277
<b>CAS No.:</b>	916741-98-5
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>18</sub> FN <sub>5</sub> O <sub>3</sub> S
<b>Molecular Weight:</b>	427.45
<b>Target:</b>	JAK
<b>Pathway:</b>	Epigenetics; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Stem Cell/Wnt
<b>Storage:</b>	4°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 50 mg/mL (116.97 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	<b>Preparing Stock Solutions</b>		1 mg	5 mg	10 mg
		1 mM	2.3395 mL	11.6973 mL	23.3945 mL
		5 mM	0.4679 mL	2.3395 mL	4.6789 mL
	10 mM	0.2339 mL	1.1697 mL	2.3395 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.67 mg/mL (3.91 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.67 mg/mL (3.91 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.67 mg/mL (3.91 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	JAK-IN-10 is a JAK inhibitor. JAK-IN-10 can be used for the research of dry eye disorders <sup>[1]</sup> . JAK-IN-10 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.
<b>IC<sub>50</sub> &amp; Target</b>	JAK
<b>In Vitro</b>	JAK kinases are a family of cytoplasmic protein tyrosine kinases including JAK1, JAK2, JAK3 and TYK2. Each of the JAK kinases is selective for the receptors of certain cytokines, though multiple JAK kinases may be affected by particular

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cytokine or signaling pathways<sup>[1]</sup>.

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

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## REFERENCES

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[1]. Hong Ren, et al. Composition for ophthalmic administration. US20140206708A1.

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

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