



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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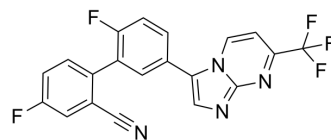
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## MRK-898

<b>Cat. No.:</b>	HY-153584		
<b>CAS No.:</b>	461450-30-6		
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>9</sub> F <sub>5</sub> N <sub>4</sub>		
<b>Molecular Weight:</b>	400.3		
<b>Target:</b>	GABA Receptor		
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Neuronal Signaling		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



## SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (249.81 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	2.4981 mL	12.4906 mL	24.9813 mL
		5 mM	0.4996 mL	2.4981 mL	4.9963 mL
10 mM		0.2498 mL	1.2491 mL	2.4981 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 >> 90% corn oil Solubility: 2.5 mg/mL (6.25 mM); Clear solution; Need ultrasonic				

## BIOLOGICAL ACTIVITY

<b>Description</b>	MRK-898 is an orally active GABA(A) receptor modulator. MRK-898 binds to $\alpha 1$ , $\alpha 2$ , $\alpha 3$ or $\alpha 5$ subunit of GABA(A) receptor with $K_i$ values of 1.2 nM, 1.0 nM, 0.73 nM, and 0.50 nM, respectively. However, $\alpha 1$ -containing GABA(A) receptors are identified as the "sedative" and $\alpha 2$ - and/or $\alpha 3$ -containing receptors as the "anxiolytic" subtype(s) <sup>[1]</sup> .			
<b>IC<sub>50</sub> &amp; Target</b>	$\alpha 1$ GABA(A) receptor 1.2 nM (Ki)	$\alpha 2$ GABA(A) receptor 1.0 nM (Ki)	$\alpha 3$ GABA(A) receptor 0.73 nM (Ki)	$\alpha 5$ GABA(A) receptor 0.50 nM (Ki)

## REFERENCES

[1]. Atack JR. GABAA receptor subtype-selective modulators. I.  $\alpha 2/\alpha 3$ -selective agonists as non-sedating anxiolytics. *Curr Top Med Chem.* 2011;11(9):1176-202.

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

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