

MRK-898

Cat. No.: HY-153584 CAS No.: 461450-30-6 Molecular Formula: $C_{20}H_{9}F_{5}N_{4}$ Molecular Weight: 400.3

Target: **GABA Receptor**

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage: -20°C Powder 3 years

In solvent

4°C 2 years -80°C 6 months

-20°C 1 month

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (249.81 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	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.

In Vivo

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

Description 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, α 1-containing GABA(A) receptors are identified as

the "sedative" and $\alpha 2$ - and/or $\alpha 3$ -containing receptors as the "anxiolytic" subtype(s)[1].

IC₅₀ & Target α1 GABA(A) receptor α2 GABA(A) receptor α3 GABA(A) receptor α5 GABA(A) receptor 1.2 nM (Ki) 1.0 nM (Ki) 0.73 nM (Ki) 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.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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