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## Product Data Sheet

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Product Name: MRK-898  
Cat. No.: GC69495

### Chemical Properties

Cas. No. 461450-30-6

Formula  $C_{20}H_{19}F_5N_4$  M.Wt 400.3

Solubility DMSO : 100 mg/mL (249.81 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

### Background

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>.

[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.

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

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