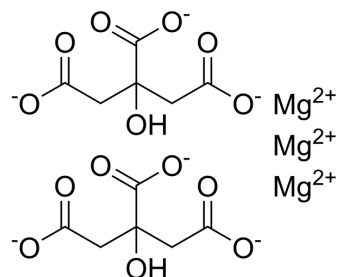


## Magnesium citrate

<b>Cat. No.:</b>	HY-W105835
<b>CAS No.:</b>	3344-18-1
<b>Molecular Formula:</b>	C <sub>12</sub> H <sub>10</sub> Mg <sub>3</sub> O <sub>14</sub>
<b>Molecular Weight:</b>	451.11
<b>Target:</b>	Toll-like Receptor (TLR)
<b>Pathway:</b>	Immunology/Inflammation
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 4.72 mg/mL (10.46 mM; ultrasonic and warming and adjust pH to 2 with HCl and heat to 60°C)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.2168 mL	11.0838 mL	22.1675 mL
	5 mM	0.4434 mL	2.2168 mL	4.4335 mL
	10 mM	0.2217 mL	1.1084 mL	2.2168 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Magnesium citrate is a magnesium salt form that provides efficient penetration into brain and muscle tissue. Magnesium citrate increases pain threshold and reduces TLR4 concentration in the brain. Orally active<sup>[1]</sup>.

### REFERENCES

[1]. Koc B, et al. Magnesium Citrate Increases Pain Threshold and Reduces TLR4 Concentration in the Brain. Biol Trace Elem Res. 2021;199(5):1954-1966.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA