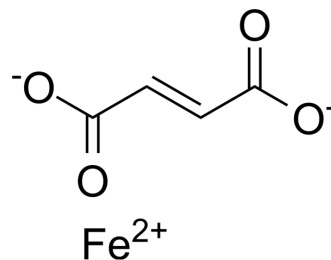


## Iron(II) fumarate

<b>Cat. No.:</b>	HY-B1651
<b>CAS No.:</b>	141-01-5
<b>Molecular Formula:</b>	C <sub>4</sub> H <sub>2</sub> FeO <sub>4</sub>
<b>Molecular Weight:</b>	169.9
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



### SOLVENT & SOLUBILITY

#### In Vitro

1M HCl : 5 mg/mL (29.43 mM; ultrasonic and warming and heat to 60°C)  
DMSO : < 1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble or slightly soluble)

Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	5.8858 mL	29.4291 mL	58.8582 mL
	5 mM	1.1772 mL	5.8858 mL	11.7716 mL	
	10 mM	0.5886 mL	2.9429 mL	5.8858 mL	

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

### BIOLOGICAL ACTIVITY

#### Description

Iron(II) fumarate (Ferrous fumarate) is the iron(II) salt of fumaric acid. Iron(II) fumarate is an orally active dietary supplement and has the potential for iron deficiency anemia treatment<sup>[1][2][3]</sup>.

### REFERENCES

- [1]. Zlotkin S, et al. Treatment of anemia with microencapsulated ferrous fumarate plus ascorbic acid supplied as sprinkles to complementary (weaning) foods. *Am J Clin Nutr.* 2001 Dec;74(6):791-5.
- [2]. Zlotkin S, et al. Use of microencapsulated iron(II) fumarate sprinkles to prevent recurrence of anaemia in infants and young children at high risk. *Bull World Health Organ.* 2003;81(2):108-15.
- [3]. Vesna D. Nikolić, et al. The synthesis and characterization of iron(II): Gluconate. *Advanced technologies.* 3(2) (2014) 16-24.

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**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](mailto:tech@MedChemExpress.com)

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