# L-Gulose

**Cat. No.:** HY-128394

**CAS No.:** 6027-89-0

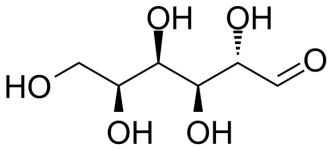
**Molecular Formula:** $C_6H_{12}O_6$

**Molecular Weight:** 180.16

**Target:** Endogenous Metabolite

**Pathway:** Metabolic Enzyme/Protease

**Storage:** 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)




## SOLVENT & SOLUBILITY

**In Vitro**

$H_2O$ : 250 mg/mL (1387.66 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent / Mass / Concentration | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | 1 mM | 5.5506 mL | 27.7531 mL | 55.5062 mL |
| | 5 mM | 1.1101 mL | 5.5506 mL | 11.1012 mL |
| | 10 mM | 0.5551 mL | 2.7753 mL | 5.5506 mL |

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

## BIOLOGICAL ACTIVITY

**Description**

L-Gulose, the putative furanose form of L-sorbosone, is an L-hexose sugar and an intermediate in the biosynthesis of L-Ascorbate (vitamin C)[1].

**$IC_{50}$ & Target**

Microbial Metabolite

## REFERENCES

[1]. Teruhide Sugisawa, et al. Microbial production of L-ascorbic acid from D-sorbitol, L-sorbose, L-gulose, and L-sorbosone by Ketogulonicigenium vulgare DSM 4025. Biosci Biotechnol Biochem. 2005 Mar;69(3):659-62.

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

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