

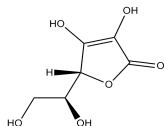
PRODUCT: L-Ascorbic Acid

ALTERNATE NAME: L-Threoascorbic acid, Antiscorbutic factor, Vitamin C

CATALOG #: 2269-100, 1000

AMOUNT: 100 mg, 1g

STRUCTURE:



MOLECULAR FORMULA: C₆H₈O₆

MOLECULAR WEIGHT: 176.12

CAS NUMBER: 50-81-7

APPEARANCE: White to off-white solid

SOLUBILITY: H₂O (500 mM)

PURITY: ≥99% by titration

STORAGE: RT. Protect from light and moisture

DESCRIPTION: Also known as Vitamin C, Ascorbic acid functions as a powerful antioxidant, particularly in regards to reactive oxygen species (ROS). It functions as an enzymatic cofactor for multiple enzymes, serving as an electron donor for monooxygenases and dioxygenases. Also enhances iPSC generation from both mouse and human somatic cells.

REFERENCE: Esteban, M.A., *et al.* (2010). *Cell Stem Cell* **6**, 71-79.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

- DiscoveryPak™ Stem Cell Fate Regulator Set I (Cat. No. K852-3)
- DiscoveryPak™ Stem Cell Fate Regulator Set II (Cat. No. K853-8)
- DiscoveryPak™ Stem Cell Fate Regulator Set III (Cat. No. K854-3)
- DiscoveryPak™ Stem Cell Fate Regulator Set IV (Cat. No. K855-3)
- DiscoveryPak™ Stem Cell Fate Regulator Set V (Cat. No. K865-5)
- DiscoveryPak™ Stem Cell Fate Regulator Set VI (Cat. No. K866-5)
- DiscoveryPak™ Stem Cell Fate Regulator Set VII (Cat. No. K866-10)
- (±) –Bay K 8644 (Cat. No. 1682-5)
- BIX01294 (Cat. No. 1678-5, 25)
- CHIR99021 (Cat. No. 1677-5, 25)
- EZSolution™ CHIR99021 (Cat. No. 1748-5)
- PD0325901 (Cat. No. 1643-2)
- PS-48 (Cat. No. 1869-5)
- Pyrintegrin (Cat. No. 1729-1,5)
- EZSolution™ Pyrintegrin (Cat. No. 1737-1)
- RepSox (Cat. No. 1894-5, 25)
- Reversine (Cat. No. 1851-1, 5)
- RG 108 (Cat. No. 1679-10,30)
- SB-431542 (Cat. No. 1674-1)
- EZSolution™ SB-431542 (Cat. No. 1872-1)
- Sodium Butyrate (Cat. No. 1609-100, 1000)
- StemBoost™ Reprogramming Cocktail Set I (Cat. No. K869-1ML, 5ML, 1set) StemBoost™ Reprogramming Cocktail Set II (Cat. No. K870-1ML, 5ML, 1set)
- Thiazovivin (Cat. No. 1681-1,5)
- EZSolution™ Thiazovivin (Cat. No. 1736-1)
- Tranlycypromine Hemisulfate (Parnate) (Cat. No. 1816-25,100)
- Valproic Acid, Sodium Salt (Cat. No. 1647-200)
- Y-27632,2 HCl (Cat. No. 1596-1, 5, 50)
- EZSolution™ Y-27632, HCl (Cat. No. 1784-5)

USAGE: *FOR RESEARCH CH USE ONLY! Not to be used in humans*