**L-Sulforaphene**  
*Item No. 17152*

**CAS Registry No.:** 592-95-0  
**Formal Name:** 4-isothiocyanato-1-(methylsulfinyl)-1-butene  
**Synonyms:** Raphanin, (S)-Sulforaphene  
**MF:** C₆H₉NOS₂  
**FW:** 175.3  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A solution in ethanol  
**UV/Vis.:** λmax: 232 nm

**Laboratory Procedures**

For long term storage, we suggest that L-sulforaphene be stored as supplied at -20°C. It should be stable for at least two years.

L-Sulforaphene is supplied as a solution in ethanol. To change the solvent, simply evaporate the L-sulforaphene under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of L-sulforaphene in these solvents is approximately 20, 15, and 1 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. If an organic solvent-free solution of L-sulforaphene is needed, it can be prepared by evaporating the ethanol and directly dissolving the neat oil in aqueous buffers. The solubility of L-sulforaphene in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

L-Sulforaphene is a natural isothiocyanate found in cruciferous vegetables. Like the related compound L-sulforaphane (Item No. 14797), it has antioxidant, anti-inflammatory, and anti-carcinogenic effects.¹ ² Radish root extract, which contains L-sulforaphene, induces apoptosis in a p53-independent manner.²

**References**


**Related Products**

For a list of related products please visit: [www.caymanchem.com/catalog/17152](http://www.caymanchem.com/catalog/17152)

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**WARNING:** This product is for laboratory research only; not for administration to humans. Not for human or veterinary diagnostic or therapeutic use.

**SAFETY DATA**

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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