(±)-Alliin

Item No. 14001

CAS Registry No.: 17795-26-5
Formal Name: S-2-propen-1-yl-S-oxide-L-cysteine
Synonyms: (±)-Allyl-L-cysteine sulfoxide
MF: C₂₆H₂₅NO₆S
FW: 369.48
Purity: ≥98%
Stability: ≥2 years at -20°C

Lab Procedure:

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

(±)-Alliin is supplied as a crystalline solid. Organic solvent-free aqueous solutions of (±)-alliin can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of (±)-alliin in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Alliin is a cysteine sulfoxide constituent of garlic that is converted by alliinase to allicin, which imparts its pungent aroma and flavor.1,2 Alliin exhibits anti-cancer, anti-microbial, anti-hypertensive, cardioprotective, and anti-oxidant activities.3-5 It has been shown to inhibit squalene monoxygenase, a rate-limiting step in the downstream pathway of cholesterol biosynthesis, with an IC₅₀ value of 120 μM.6,7

References

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