(+)-Alliin
Item No. 14002

CAS Registry No.: 556-27-4
Formal Name: \[S(S)\]-S-2-propen-1-yl-S-oxide-L-cysteine
Synonym: S-Allyl-L-cysteine sulfoxide
MF: C$_6$H$_{11}$NO$_3$S
FW: 177.2
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid

Laboratory Procedures
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. Alliin exhibits anti-cancer, anti-microbial, anti-hypertensive, cardioprotective, and anti-oxidant activities. S-allyl-cysteine is oxidized stereospecifically to (+)-alliin by garlic tissue cultures.

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/14002

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

MATERIAL 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 Material Safety Data Sheet, which has been sent via email to your institution.

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