D-Penicillamine

PRODUCT DATA SHEET
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Product Name: D-Penicillamine
Product Number: P107
CAS Number: 52-67-5
Molecular Formula: C\textsubscript{5}H\textsubscript{11}NO\textsubscript{2}S
Molecular Weight: 149.21

Description: D-Penicillamine is a copper chelating agent that also functions as a disease-modifying, anti-rheumatic immunosuppressant, and a treatment for cystinuria.

TOKU-E offers both D-penicillamine (P107) and L-penicillamine (P112). While they are enantiomers of each other with equal copper chelating ability, L-penicillamine has a high toxicity in humans.

Mechanism of Action: D-Penicillamine treats cystinuria by disulfide exchanging between d-penicillamine and cystine, the product of penicillamine-cysteine disulfide being much more soluble than cystine.


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