Fudosteine
Item No. 16722

CAS Registry No.: 13189-98-5
Formal Name: S-(3-hydroxypropyl)-L-cysteine
Synonym: SS320A
MF: C₆H₁₃NO₃S
FW: 179.2
Purity: ≥95%
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Fudosteine is supplied as a crystalline solid. Aqueous solutions of fudosteine can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of fudosteine in PBS (pH 7.2) is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Fudosteine is a cysteine derivative that interferes with the increase in goblet cell number, expression of the mucin MUC5AC, and subsequent mucin secretion, in airways agonized with tobacco smoke, isoproterenol, lipopolysaccharide, TNF-α, or oxidants.³⁻⁴ Fudosteine, which is a thiol compound with antioxidant properties, limits NF-κB signaling and reduces inflammatory gene expression.³ It has greater bioavailability than N-acetyl-cysteine and increases cysteine levels in cells.³

References