

Recombinant human SLC7A9 protein, N-Trx-His

Catalog Number: bs-42272P

Concentration: >0.5mg/ml

Species: Human

Predicted MW: 24.6

Tags: N-Trx-His

Endotoxin: Not analyzed

Purity: >90% as determined by SDS-PAGE

Purification: AC

Form: Lyophilized or Liquid

Storage: 20mM Tris-HCl (pH=8.0).

Stored at -70°C or -20°C. Avoid repeated freeze/thaw cycles.

Background: SLC7A9 belongs to the amino acid-polyamine-organocation (APC) superfamily. It is a disulfide linked heterodimer with the amino acid transport protein SLC3A1. SLC7A9 is involved in the high affinity, sodium independent transport of cystine and neutral and dibasic amino acids (system b₀+, -like activity). Thought to be responsible for the high affinity reabsorption of cystine in the kidney tubule. Defects in SLC7A9 are a cause of non type I cystinuria (CSNU). CSNU arises from impaired transport of cystine and dibasic amino acids through the epithelial cells of the renal tubule and gastrointestinal tract. Three types of cystinuria have been described: type I (fully recessive or silent); type II (high excretor); type III (moderate excretor). Defects in SLC7A9 are associated with type II and type III cystinuria. They also might account for some non classic type I cystinuria cases.

VALIDATION IMAGES



The purity of the protein is greater than 90% as determined by reducing SDS-PAGE.