
Recombinant human DUOX1 protein, N-His

Catalog Number: bs-42186P

Concentration: >1mg/ml

Species: Human

AA Seq: 1270-1551/1551

Predicted MW: 34.9

Tags: N-His

Endotoxin: Not analyzed

Purity: >90% as determined by SDS-PAGE

Purification: AC

Form: Lyophilized or Liquid

Storage: 20mM Tris-HCl (pH8.0) with 8M Urea and 5mM DTT.

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

Background: Dual oxidase 1 (DUOX1), a homolog of glycoprotein p91Phox, is expressed in airway epithelium and generates reactive oxygen species (ROS). DUOX1 is a multi-pass membrane protein predominantly expressed in thyrocytes and tracheal surface epithelial cells, as well as thyroid, trachea and bronchium. DUOX1 generates hydrogen peroxide, which is crucial for thyroid peroxidase and lactoperoxidase. It is also involved in thyroid hormone synthesis and lactoperoxidase-mediated antimicrobial defense in mucosa. DUOX1, which also plays a role in mucin expression, is widely expressed in fetal tissues.

VALIDATION IMAGES



The purity of the protein is greater than 85% as determined by reducing SDS-PAGE.