

Recombinant Swine Troponin I, Cardiac Muscle (TNNI3), N-His

Cat. No.: AP9C922

Product Type: Animal Proteins

Size: 50 µg; 100 µg; 200 µg; 500 µg; 1 mg; 5 mg

Product Overview

BioVenic's Recombinant Swine Troponin I, Cardiac Muscle (TNNI3), N-His is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 10.1 kDa. The purity is >95% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Swine
Expression System	<i>E.coli</i>
Purity	>95% (SDS-PAGE)
Predicted Molecular Weight	10.1 kDa
Physical State	Lyophilized
Formulation	The buffer before lyophilization is phosphate buffered saline.

Target Information

Swine troponin I, cardiac muscle (cTnI) is a key regulatory protein in cardiac muscle contraction and relaxation. It is part of the troponin complex, which is essential for muscle contraction and is activated by calcium binding to troponin C. cTnI is also a "gold-standard" serum biomarker for diagnosing acute cardiac injury due to its heart specificity and release into circulation following cardiac tissue necrosis.

Protein	Swine Troponin I, Cardiac Muscle (TNNI3)
Protein Synonym	TNNI3; TNNC1; CMH7; C-TnI; Troponin I Type 3; Troponin I Type 3; Cardiac
Gene ID	100049696
UniProt ID	A0A8D0X9H1

Shipping and Storage

This product is shipped with dry ice. It is recommended to aliquote as needed and store at -80°C upon receipt. Reconstituted protein solution can be stored at 4°C for 1 week, at < -80°C for 12 months.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Aliquote the reconstituted solution to minimise freeze-thaw cycles.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.