



Human Zinc Transporter 8 (ZnT8)

Origin:	Recombinant	Cat. No.:	41848
Tag:	N-terminal 6xHis	Size:	0.1 mg
Source:	<i>Spodopterafrugiperda</i> Sf9	Purity:	>95%
Species:	Human	Abbreviation	ZnT8

Description

Expressed in Baculovirus-sf9 vector expression system with total 225 amino acids (AA).
Mw: 24.74 KDa (calculated).

N-terminal 6xHis-tag and TEV cleavage site, 25 extra AA.

Recombinant antigen for research use or manufacturing only.

Introduction to the Molecule

ZnT8 is a protein encoded by the SLC30A8 gene.

ZnT8 is specifically expressed in pancreatic islet beta cells, where it regulates the transport of zinc. ZnT8 plays an important role in the proper storage and secretion of insulin.

Recent studies have identified ZnT8 as a novel autoantigen for the diagnosis of autoimmune diabetes. Detection of autoantibodies to ZnT8 has increased the detection of autoimmune diabetes by 5-10%.

Immunological Function

As an autoantigen, ZnT8 binds with IgG-type human autoantibodies.

Applications

Bio-functional study, ELISA, radioimmunoassay

Formulation

Liquid in Phosphate buffer containing NaCl (1M), Na₂HPO₄ (10mM), KCl (2.7mM) and KH₂PO₄ (2.0mM) with protease inhibitor, pH8.0.

Storage

Store at -80°C. Avoid repeated freezing/thawing cycles.

Quality Control Test

BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

Elisa assay analysis to determine functionality of protein.





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