

Human Optineurin / OPTN Protein (His & GST Tag)

Catalog Number: 14478-H20B



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

ALS12; FIP2; GLC1E; HIP7; HYPL; NRP; TFIIIA-INTP

Protein Construction:

A DNA sequence encoding the human OPTN (NP_068815.2) (Met1-Ile577) was expressed with the N-terminal polyhistidine-tagged GST tag at the N-terminus.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 85 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Met

Molecular Mass:

The recombinant human OPTN chimera consists of 814 amino acids and has a calculated molecular mass of 93.7 kDa. The recombinant protein migrates approximately 94 kDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 20mM Tris, 500mM NaCl, 10% glycerol, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

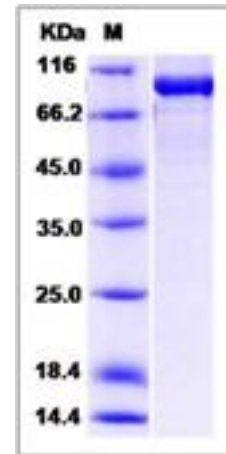
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Optineurin gene encodes the coiled-coil containing protein optineurin. Optineurin may play a role in normal-tension glaucoma and adult-onset primary open angle glaucoma. Optineurin interacts with adenovirus E3-14.7K protein and may utilize tumor necrosis factor-alpha or Fas-ligand pathways to mediate apoptosis, inflammation or vasoconstriction. Optineurin may also function in cellular morphogenesis and membrane trafficking, vesicle trafficking, and transcription activation through its interactions with the RAB8, huntingtin, and transcription factor IIIA proteins. Alternative splicing results in multiple transcript variants encoding the same protein.

References

- 1.Rezaie T. et al., 2002, Science. 295 (5557): 1077-9.
- 2.Li Y. et al., 1998, Mol Cell Biol. 18 (3): 1601-10.
- 3.Skarnes Wc RB. et al., 2011, Nature. 474 (7351): 337-42.

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