

Optineurin Protein, Human, Recombinant (E. coli, His)

General Information

Synonyms:	Optineurin;HIP7;Huntingtin-interacting protein L;Optic neuropathy-inducing protein;NEMO-related protein;GLC1E;OPTN;Huntingtin yeast partner L;Transcription factor IIIA-interacting protein (TFIIIA-IntP);HYPL;Huntingtin-interacting protein 7 (HIP-7);NRP;E3-14.7K-interacting protein (FIP-2);FIP2
Protein Construction:	1-577 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q96CV9
Molecular Weight:	69.9 kDa (predicted)
AA Sequence:	MSHQPLSCLTEKEDSPSESTGNPPHLAHPNLDFTPEELLQQMKELLTENHQLKEAMKLNNQAMKGRFEE LSAWTEKQKEERQFFEIQSKEAKERLMALSHENEKLEELGKLGKGSERSEDPTDDSRLPRAEAEQEKDQLR TQVVRLQAEKADLLGIVSELQKLNSSGSSSEDSFVEIRMAEGEAEGSVKEIKHSPGPTRTVSTGTALSKYRSRSA DGAKNYFEHEELTVSQQLLCLREGNQKVERLEVALKEAKERVSDFEKKTNSRSEIETQTEGSTEKENDEEKGP TVGSEVEALNLQVTSFLKELQEAHTKLSKAELMKRLQEKQCALERNKNSAIPSELNEKQELVYTNKKLELQVES MLSEIKMEQAKTEDEKSKLTVLQMTNKLQEHNNALKTIEELTRKESEKVDRAVLKELSEKLELAEKALASKQ LQMDMKQTIKQEEDELETMTILRAQMEVYCSDFHAERAAREKIHEEKEQLALQLAVLLKENDAFEDGGRQS LMEMQSRHGARTSDSDQAYLVQRGAEDRDWRQQRNIPHSCKPCGVELPDIIDLQIHVMDCII

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Plays an important role in the maintenance of the Golgi complex, in membrane trafficking, in exocytosis, through its interaction with myosin VI and Rab8. Links myosin VI to the Golgi complex and plays an important role in Golgi ribbon formation. Plays a role in the activation of innate immune response during viral infection. Mechanistically, recruits TBK1 at the Golgi apparatus, promoting its trans-phosphorylation after RLR or TLR3 stimulation. In turn, activated TBK1 phosphorylates its downstream partner IRF3 to produce IFN-beta. Plays a neuroprotective role in the eye and optic nerve. May act by regulating membrane trafficking and cellular morphogenesis via a complex that contains Rab8 and huntingtin (HD). Mediates the interaction of Rab8 with the probable GTPase-activating protein TBC1D17 during Rab8-mediated endocytic trafficking, such as of transferrin receptor (TFRC/TfR); regulates Rab8 recruitment to tubules emanating from the endocytic recycling compartment. Autophagy receptor that interacts directly with both the cargo to become degraded and an autophagy modifier of the MAP1 LC3 family; targets ubiquitin-coated bacteria (xenophagy), such as cytoplasmic *Salmonella enterica*, and appears to function in the same pathway as SQSTM1 and CALCOCO2/NDP52.; (Microbial infection) May constitute a cellular target for adenovirus E3 14.7 and Bluetongue virus protein NS3 to inhibit innate immune response.

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