

## ITCH/AIP4 Protein, Human (solution)

Cat. No.:	HY-P75894
Synonyms:	E3 ubiquitin-protein ligase Itchy homolog; AIP4; NAPP1; ITCH
Species:	Human
Source:	E. coli
Accession:	NP_113671.3 (N-G&P, R485-E862)
Gene ID:	83737
Molecular Weight:	Approximately 40 kDa

### PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 200 mM NaCl, 10% Glycerol, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice

### DESCRIPTION

Background	The ITCH/AIP4 protein, a member of the Nedd4 family of HECT domain E3 ubiquitin ligases, is involved in the transfer of ubiquitin from E2 ubiquitin-conjugating enzymes to protein substrates, leading to their degradation in lysosomes. This protein has diverse functions, including the regulation of erythroid and lymphoid cell differentiation as well as immune responses. Mutations in this gene have been associated with syndromic multisystem autoimmune disease. Additionally, alternative splicing results in the production of multiple isoforms of this protein. The ITCH/AIP4 protein exhibits ubiquitous expression, with notable levels in tissues such as the testis, esophagus, and 25 other tissues.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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