

## HERC1 Protein, Human, Recombinant (His & Myc)

### General Information

Synonyms:	Probable E3 ubiquitin-protein ligase HERC1;HECT domain and RCC1-like domain-containing protein 1;p619;HERC1;p532;HECT-type E3 ubiquitin transferase HERC1
Protein Construction:	3975-4360 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q15751
Molecular Weight:	48.1 kDa (predicted)
AA Sequence:	GMDEQIMSWATSRPEDWHLGGKCDVYLWGAGRHGQLAEAGRNVMVPAAPSFSAQQVICGQNCTFVIQ ANGTVLACGEGSYGRLGQGNSDDLHVLTVISALQGFVVTQLVTSCGSDGHSMALTESGEVFSWGDGDYGL GHGNSDRQRRPRQIEALQGEVVQMSCGFKHSAVVTSDGKLFTFGNGDYGRLGLGNTSNKKLPERVTALE YQIGQVACGLNHTLAVSADGSMVWAFGDGDYGLGLGNSTAKSSPKIDVLCGIGIKKVACGTQFSVALTKD GHVYTFGQDRLIGLPEGRARNHNRPPQIPVLAVGIIEDVAVGAEHTLALASNGDVYAWGSNSEGLGLGHT NHVREPTLVTGLQGKNVRQISAGRCHSAAWTA

### 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:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

### Preparation and Storage

Reconstitution:	Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.
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.
Shipping:	In general, Lyophilized powders are shipping with blue ice. Solutions are shipping with dry ice.

**Protein Background**

Involved in membrane trafficking via some guanine nucleotide exchange factor (GEF) activity and its ability to bind clathrin. Acts as a GEF for Arf and Rab, by exchanging bound GDP for free GTP. Binds phosphatidylinositol 4,5-bisphosphate, which is required for GEF activity. May also act as a E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates.

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