

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:	GMDEQIMSWATSRPEDWHLGGKCDVYLWGAGRHGQLAEAGRNVMPAAAPSFSAQQVICGQNCTFVIQ ANGTVLACGEGSYGRLGQGNDDLHVLTVISALQGFVVTQLVTSCGSDGHSMALTESGEVFSWGDGDYGKL GHGNSDRQRRPRQIEALQGEVVQMSCGFKHSAVVTSDGKLFNGNDYGRGLGNTSNKKLPERVTALEG YQIGQVACGLNHTLAVSADGSMVWAFGDGDYGKLGNGNSTAKSSPKIDVLCGIGIKKVACGTQFSVALTKD GHVYTFGQDRLIGLPEGRARNHNRPPQIPVLAGVIIEDVAVGAEHTLALASNGDVYAWGSNSEGQLGLGHT 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.

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

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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