A Reliable Research Partner in Life Science and Medicine

Recombinant Human ORP150/HSP12A Protein (His Tag)

Catalog Number: PKSH031144

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Species Human

Source HEK293 Cells-derived Human ORP150/HSP12A protein Met 695-Leu 994, with an C-

terminal His

 Calculated MW
 35.2 kDa

 Observed MW
 55-65 kDa

 Accession
 NP 001124463.1

Bio-activity Not validated for activity

Properties

Purity > 97 % as determined by reducing SDS-PAGE.

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

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80

°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 7.4

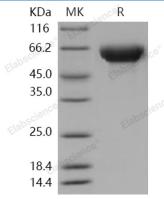
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 97 % as determined by reducing SDS-PAGE.

Background

Elabscience Bionovation Inc.



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Hypoxia up-regulated protein 1, also known as 150 kDa oxygen-regulated protein, 170 kDa glucose-regulated protein, ORP-150, GRP-170 and HYOU1, is a member of theheat shock protein 70 family. Seven members from four different heat shock protein (HSP) families were identified including HYOU1 (ORP150), HSPC1 (HSP86), HSPA5 (Bip), HSPD1 (HSP60), and several isoforms of the two testis-specific HSP70 chaperones HSPA2 and HSPA1L. HYOU1 is highly expressed in tissues that contain well-developed endoplasmic reticulum and synthesize large amounts of secretory proteins. It is highly expressed in liver and pancreas. HYOU1 is also expressed in macrophages within aortic atherosclerotic plaques, and in breast cancers. HYOU1 has a pivotal role in cytoprotective cellular mechanisms triggered by oxygen deprivation. It may play a role as a molecular chaperone and participate in protein folding. Suppression of HYOU1 is associated with accelerated apoptosis. It is suggested to have an important cytoprotective role in hypoxia-induced cellular perturbation. This protein has been shown to be up-regulated in tumors, especially in breast tumors, and thus it is associated with tumor invasiveness.

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