Data Sheet (Cat.No.TMPH-01570)

TargetMol

KLHDC3 Protein, Human, Recombinant (E. coli, His & Myc)

General Information

Synonyms:	PEAS;Kelch domain-containing protein 3;Testis intracellular mediator protein;KLHDC3
Protein Construction:	1-382 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q9BQ90
Molecular Weight:	50.5 kDa (predicted)
AA Sequence:	MLRWTVHLEGGPRRVNHAAVAVGHRVYSFGGYCSGEDYETLRQIDVHIFNAVSLRWTKLPPVKSAIRGQAPV VPYMRYGHSTVLIDDTVLLWGGRNDTEGACNVLYAFDVNTHKWFTPRVSGTVPGARDGHSACVLGKIMYIFG GYEQQADCFSNDIHKLDTSTMTWTLICTKGSPARWRDFHSATMLGSHMYVFGGRADRFGPFHSNNEIYCNRI RVFDTRTEAWLDCPPTPVLPEGRRSHSAFGYNGELYIFGGYNARLNRHFHDLWKFNPVSFTWKKIEPKGKGP CPRRRQCCCIVGDKIVLFGGTSPSPEEGLGDEFDLIDHSDLHILDFSPSLKTLCKLAVIQYNLDQSCLPHDIRWEL NAMTTNSNISRPIVSSHG

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:

Reconstitute the lyophilized protein in distilled 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

Substrate-recognition component of a Cul2-RING (CRL2) E3 ubiquitin-protein ligase complex of the DesCEND (destruction via C-end degrons) pathway, which recognizes a C-degron located at the extreme C terminus of target proteins, leading to their ubiquitination and degradation. The C-degron recognized by the DesCEND pathway is usually a motif of less than ten residues and can be present in full-length proteins, truncated proteins or proteolytically cleaved forms. The CRL2(KLHDC3) complex specifically recognizes proteins with a glycine (Gly) at the C-terminus, leading to their ubiquitination and degradation: recognizes the C-terminal -Arg-(Xaa)n-Arg-Gly, -Arg-(Xaa)n-Lys-Gly, and -Arg-(Xaa)n-Gln-Gly degrons. The CRL2(KLHDC3) complex mediates ubiquitination and degradation of truncated SELENOV and SEPHS2 selenoproteins produced by failed UGA/Sec decoding, which end with a glycine. May be involved in meiotic recombination process.

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