Data Sheet (Cat.No.TMPH-02622)

TargetMol

DOCK8 Protein, Mouse, Recombinant (E. coli, His)

General Information

Synonyms: Dock8;Dedicator of cytokinesis protein 8

Protein Construction: 561-730 aa

Species: Mouse

Expression Host: E. coli

Accession: Q8C147

Molecular Weight: 24.7 kDa (predicted)

AA Sequence: RNLLYVYPQRLNFASKLASARNITIKIQFMCGEDPSNAMPVIFGKSSGPEFLQEVYTAITYHNKSPDFYEEVKIK LPAKLTVNHHLLFTFYHISCQQKQGASGESLLGYSWLPILLNERLQTGSYCLPVALEKLPPNYSIHSAEKVPLQ NPPIKWAEGHKGVFNIEVQAV

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:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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

Guanine nucleotide exchange factor (GEF) which specifically activates small GTPase CDC42 by exchanging bound GDP for free GTP. During immune responses, required for interstitial dendritic cell (DC) migration by locally activating CDC42 at the leading edge membrane of DC. Required for CD4(+) T-cell migration in response to chemokine stimulation by promoting CDC42 activation at T cell leading edge membrane. Is involved in NK cell cytotoxicity controlling polarization of microtubule-organizing center (MTOC), and possibly regulating CCDC88B-

mediated lytic granule transport to MTOC during cell killing.

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