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Datasheet for ABIN1692177
DNAJB1 Protein (AA 2-340) (His tag)

Overview

Quantity:	50 µg
Target:	DNAJB1
Protein Characteristics:	AA 2-340
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DNAJB1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human DnaJ Homolog Subfamily B Member 1/DNAJB1 (C-6His)
Sequence:	GKDYYQTLGL ARGASDEEIK RAYRRQALRY HPDKNKEPGA EEKFKEIAEA YDVLSDPRKR EIFDRYGEEG LKGSGPSGGS GGGANGTSFS YTFHGDPHAM FAEFFGGRNP FDTFFGQRNG EEGMDIDDPF SGFPMGMGGF TNVNFGRSRS AQEPARKKQD PPVTHDLRVS LEEIYSGCTK KMKISHKRLN PDGKSIRNED KILTIEVKKG WKEGTKITFP KEGDQTSNNI PADIVFLKD KPHNIFKRDG SDVIYPARIS LREALCGCTV NVPTLDGRTI PVVFKDVIRP GMRRKVPPEG LPLPKTPEKR GDLIIEFEVI FPERIPQTSR TVLEQVLPIL EHHHHHHH
Characteristics:	Recombinant Human DnaJ Homolog Subfamily B Member 1/DNAJB1 is produced with our E. coli expression system. The target protein is expressed with sequence (Gly2-Ile340) of Human DNAJB1 fused with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered

Product Details

Endotoxin Level: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test

Target Details

Target: DNAJB1

Alternative Name: DNAJB1 ([DNAJB1 Products](#))

Sub Type: Fusionprotein

Background: DnaJ Homolog Subfamily B Member 1 (DNAJB1) is a member of the heat shock protein family. Heat shock proteins (HSPs) are a highly conserved family of stress response proteins. HSPs function primarily as molecular chaperones, facilitating the folding of other cellular proteins, preventing protein aggregation, or targeting improperly folded proteins to specific degradative pathways. DNAJB1 regulates cellular processes by aiding in the folding, transport and assembly. DNAJB1 contains a J-domain which controls interaction with the ATPase domain of DnaK. DNAJB1 interacts with HSP70 and can stimulate its ATPase activity. In addition, DNAJB1 stimulates the association between HSC70 and HIP.

Alternative Names: DnaJ Homolog Subfamily B Member 1, DnaJ Protein Homolog 1, Heat Shock 40 kDa Protein 1, HSP40, Heat Shock Protein 40, Human DnaJ Protein 1, hDj-1, DNAJB1, DNAJ1, HDJ1, HSPF1

Molecular Weight: 39.1 kDa

UniProt: [P25685](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: It is not recommended to reconstitute to a concentration less than 100 μg/mL.
Dissolve the lyophilized protein in ddH₂O.
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Buffer: Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, 1 mM EDTA, pH 7.4.

Handling Advice: Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

Storage: 4 °C/-20 °C/-80 °C

Handling

Storage Comment: Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.
Reconstituted protein solution can be stored at 4-7°C for 2-7 days.
Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date: 3 months