RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Recombinant DNA J

Catalog No.
228-10327

Source:
Escherichia coli

Synonyms
HSP-40, HSP40, DnaJ, DNAJB1, HSPF1, Hdj1.

Introduction
DnaJ, Heat shock protein, functions in association with DnaK (Hsp70) molecular chaperone to facilitate protein folding p70 chaperone. DnaJ plays a key role in the chaperone reaction by stimulating the ATPase activity and activating the substrate binding of Hsp70. DnaJ consists of four domains that are N-terminal 76 amino acid J-domain, G/F domain, zinc-binding cysteine rich CR-domain, C-terminal CTD-domain and they are conserved to various degrees among the homologues.

Description
Recombinant Dna-J produced in E.Coli is a single, non-glycosylated polypeptide chain containing 376 amino acids and having a molecular mass of 41.1 kDa.

Source
Escherichia coli

Physical Appearance
Sterile filtered colorless solution.

Formulation
The DnaJ (1 mg/ml) contains 25 mM Tris-HCl buffer (pH 7.5), 100 mM NaCl, 5 mM DTT and 10% Glycerol.

Stability
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

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Purity

Greater than 95.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by reducing SDS-PAGE.

Sequence

MAKQDYYEIL GVSKTAEEHE IRKAYKRLAM KYHPDRNQGD KEAEAKFKEI
KEAYEVLTDS QKRAAYDQYG HAAFEQGGMG GGGFGGGADF SDIFGDVFGD
IFGGGRGRQR AARGADLRYN MELTLEEAVR GVTKEIRIPT LEECDVCHGS
GAKPGTQPQT CPTCHGSGQV QMRQGFFAVQ QTCPHCQGRG TLIKDPCNKC
HGHGRVERSK TLSVKIPAGV DTGDRIRLAG EGEAGEHGAP AGDLYVQVQV
KQHPIFEREG NNLYCEVPIN FAMAALGGEI EVPTLDGRVK LKVPGETQTG
KLFRMRGKGV KSVRGGAQGD LLCRVVVETP VGLNERQKQL LQELQESFGG
PTGEHNSPRS KSFFDGVKKF FDDLTR.