

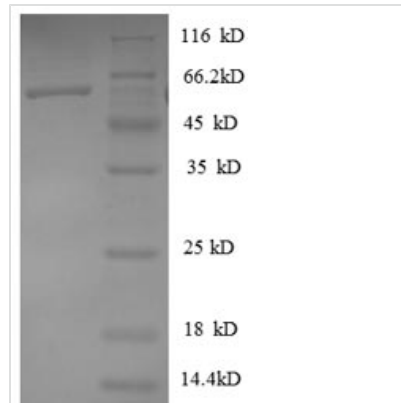


Recombinant Human Heterogeneous nuclear ribonucleoprotein D0(HNRNPD),partial

Product Code	CSB-RP025444h
Relevance	Binds with high affinity to RNA molecules that contain AU-rich elements (AREs) found within the 3'-UTR of many proto-oncogenes and cytokine mRNAs. Also binds to double- and single-stranded DNA sequences in a specific manner and functions as a transcription factor. Each of the RNA-binding domains specifically can bind solely to a single-stranded non-monotonous 5'-UUAG-3' sequence and also weaker to the single-stranded 5'-TTAGGG-3' telomeric DNA repeat. Binds RNA oligonucleotides with 5'-UUAGGG-3' repeats more tightly than the telomeric single-stranded DNA 5'-TTAGGG-3' repeats. Binding of RRM1 to DNA inhibits the formation of DNA quadruplex structure which may play a role in telomere elongation. May be involved in translationally coupled mRNA turnover. Implicated with other RNA-binding proteins in the Cytoplasmic domain deadenylation/translational and decay interplay of the FOS mRNA mediated by the major coding-region determinant of instability (mCRD) domain. May play a role in the regulation of the rhythmic expression of circadian clock core genes. Directly binds to the 3'UTR of CRY1 mRNA and induces CRY1 rhythmic translation. May also be involved in the regulation of PER2 translation.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q14103
Storage Buffer	Tris-based buffer,50% glycerol
Alias	AU-rich element RNA-binding protein 1
Product Type	Recombinant Protein
Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	AVGGSAGEQEGAMVAATQGAAAAAGSGAGTGGGTASGGTEGGSAESEGAKI DASKNEEDEGHSSNSPRHSEAATAQREEWKMFIGGLSWDTTKKDLKDYFSKF GEVVDCTLKLDLPITGRSRGFGFVLFKESESVDKVMQKEHKLNGKVIDPKRAK AMKTKEPVKKIFVGLSPDTPEEKIREYFGGFGEVESIELPMDNKTNRKRGFC FITFKEEEPVKKIMEKKYHNVGLSKCEIKVAMSKEQYQQQQQWGSRRGGFAGR ARGRGGGPSQNWQGYSNYWNQGYGNYGYNSSQGYGGYGGYDYGYNYY YGYGDYSNQQSGYGKVSRRGGHQNSYKPY
Research Area	Transcription
Source	E.coli
Gene Names	HNRNPD
Expression Region	18-355aa



Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal GST-tagged
Mol. Weight	63.9kDa
Protein Description	Partial

Image

(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.