

Active Recombinant Human HSPA1A

Cat. No. HSPA1A-266H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HSPA1A (Accession # AAD21816) was produced in E. coli-derived.
Species	Human
Source	E.coli
Form	X mg/ml (X μ M) in 50 mM HEPES pH 8, 100 mM NaCl, 5 mM DTT
Bio-activity	HSP70/HSPA1A is a molecular chaperone that assists in the folding of nascent polypeptides and the refolding of denatured proteins, but can also promote their degradation in conjunction with specific E3 ligases, such as CHIP, if either of these processes proceeds inefficiently. Reaction conditions will need to be optimized for each specific application. We recommend an initial HSP70/HSPA1A concentration of 2-3 μ M for in vitro use. IMPORTANT: HSP40/DNAJB1, or another suitable co-chaperone, is required for HSP70/HSPA1A activity and should be used at a concentration that is equimolar to HSP70/HSPA1A.
Molecular Mass	Recombinant Human HSPA1A has a calculated MW of 70 kDa.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.
Storage	Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3

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months (-70°C).

GENE INFORMATION

Gene Name	HSPA1A heat shock 70kDa protein 1A [Homo sapiens]
Official Symbol	HSPA1A
Synonyms	HSPA1A; heat shock 70kDa protein 1A; heat shock 70kD protein 1A , HSPA1; heat shock 70 kDa protein 1A/1B; HSP70 1; HSP70-1/HSP70-2; HSP70.1/HSP70.2; heat shock 70kD protein 1A; heat shock-induced protein; heat shock 70 kDa protein 1/2; dnaK-type molecular chaperone HSP70-1; HSP72; HSPA1; HSP70I; HSPA1B; HSP70-1; HSP70-1A; FLJ54303; FLJ54370; FLJ54392; FLJ54408; FLJ75127;
Gene ID	3303
mRNA Refseq	NM_005345
Protein Refseq	NP_005336
MIM	140550
UniProt ID	P08107
Chromosome Location	6p21.3

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