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# (DANRE) hspa8 Blocking Peptide (C-term)

**Synthetic peptide**
**Catalog # BP21747b**

## Specification

### (DANRE) hspa8 Blocking Peptide (C-term) - Product Information

Primary Accession Q90473

### (DANRE) hspa8 Blocking Peptide (C-term) - Additional Information

**Other Names**
Heat shock cognate 71 kDa protein, Heat shock 70 kDa protein 8, hspa8, hsc70

**Target/Specificity**
The synthetic peptide sequence is selected from aa 548-562 of HUMAN hspa8

**Format**
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

### (DANRE) hspa8 Blocking Peptide (C-term) - Protein Information

**Name** hspa8

**Synonyms** hsc70

**Function**
Molecular chaperone implicated in a wide variety of cellular processes, including protection of the proteome from stress, folding and transport of newly synthesized polypeptides, activation of proteolysis of misfolded proteins and the formation and

### (DANRE) hspa8 Blocking Peptide (C-term) - References

Graser R.T.,et al.Genetica 98:273-276(1996).

dissociation of protein complexes. Plays a pivotal role in the protein quality control system, ensuring the correct folding of proteins, the re-folding of misfolded proteins and controlling the targeting of proteins for subsequent degradation. This is achieved through cycles of ATP binding, ATP hydrolysis and ADP release, mediated by co-chaperones. The affinity of HSP70 for polypeptides is regulated by its nucleotide bound state. In the ATP-bound form, it has a low affinity for substrate proteins. However, upon hydrolysis of the ATP to ADP, it undergoes a conformational change that increases its affinity for substrate proteins. HSP70 goes through repeated cycles of ATP hydrolysis and nucleotide exchange, which permits cycles of substrate binding and release.

**(DANRE) hspa8 Blocking Peptide (C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides