



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

Synthetic peptide Catalog # BP21747b

## **Specification**

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

Primary Accession <u>Q90473</u>

(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

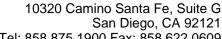
Synonyms hsc70

#### **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).





Tel: 858.875.1900 Fax: 858.622.0609

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