

# HSBP1 binds HSF1 trimer

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## Introduction

Reactome is open-source, open access, manually curated and peer-reviewed pathway database. Pathway annotations are authored by expert biologists, in collaboration with Reactome editorial staff and cross-referenced to many bioinformatics databases. A system of evidence tracking ensures that all assertions are backed up by the primary literature. Reactome is used by clinicians, geneticists, genomics researchers, and molecular biologists to interpret the results of high-throughput experimental studies, by bioinformaticians seeking to develop novel algorithms for mining knowledge from genomic studies, and by systems biologists building predictive models of normal and disease variant pathways.

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## Literature references

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- Fabregat, A., Jupe, S., Matthews, L., Sidiropoulos, K., Gillespie, M., Garapati, P. et al. (2018). The Reactome Pathway Knowledgebase. *Nucleic Acids Res*, 46, D649-D655. [↗](#)
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Reactome database release: 88

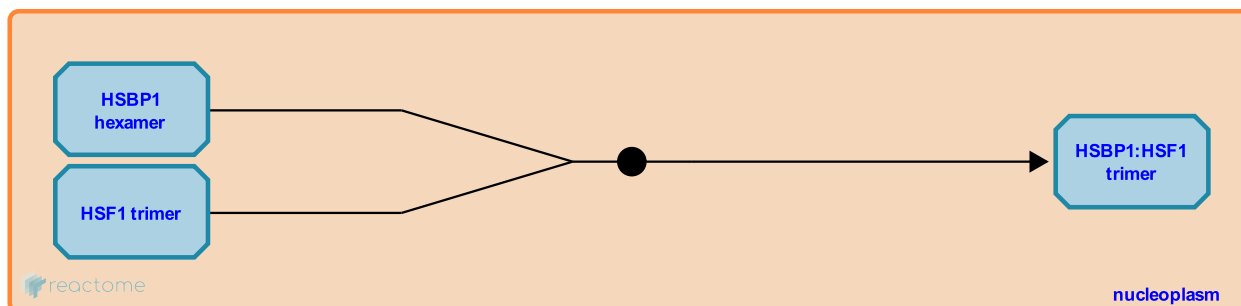
This document contains 1 reaction ([see Table of Contents](#))

## HSBP1 binds HSF1 trimer [↗](#)

**Stable identifier:** R-HSA-3371582

**Type:** binding

**Compartments:** nucleoplasm



Heat shock factor binding protein 1 (HSBP1) is a nuclear localized hydrophobic repeat-containing protein, which interacts with trimerization domain of HSF1 and negatively regulates DNA-binding activity of HSF1. Overexpression of HSBP1 in mammalian cells represses the transactivation activity of HSF1 (Satyal SH et al. 1998).

### Literature references

Fox, SG., Morimoto, RI., Kramer, JM., Chen, D., Satyal, SH. (1998). Negative regulation of the heat shock transcriptional response by HSBP1. *Genes Dev.*, 12, 1962-74. [↗](#)

### Editions

2013-10-29	Authored	Shamovsky, V.
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