

## Recombinant Human Nuclear Transport Factor 2

Cat. No. NUTF2-2542H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human Nuclear Transport Factor 2 was produced in <i>E.coli</i> .
<b>Species</b>	Human
<b>Source</b>	<i>E.coli</i>
<b>Description</b>	The protein encoded by this gene is a cytosolic factor that facilitates protein transport into the nucleus. It interacts with the nuclear pore complex glycoprotein p62. This encoded protein acts at a relative late stage of nuclear protein import, subsequent to the initial docking of nuclear import ligand at the nuclear envelope. It is thought to be part of a multicomponent system of cytosolic factors that assemble at the pore complex during nuclear import.
<b>Purity</b>	>90% (SDS-PAGE).
<b>Form</b>	Lyophilized powder containing Hepes buffer salts, potassium acetate, magnesium acetate, EGTA, and sucrose.
<b>Biochem/physiol Actions</b>	Mediates the nuclear import of RanGDP, driving the nuclear accumulation of Ran. This process is essential for maintaining the cellular nuclear transport and for cell viability. NTF2, which possesses non-overlapping binding sites for both RanGDP and nucleoporin FxFG repeats, binds RanGDP in the cytoplasm and carries it via the nuclear pore complex (NPC) by binding to the FxFG-repeats, which allows rapid attachment and detachment of NTF2 to the nucleoporins while it passes through the NPC. At the nuclear side of the NPC, the release of RanGDP from NTF2 may be

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promoted by dissociation of the NTF2 to its monomers.

**Analysis Note** Measured in a binding assay of Ran to NTF2.

**Storage** -20°C.

## GENE INFORMATION

**Gene Name** NUTF2 nuclear transport factor 2 [ Homo sapiens ]

**Synonyms** NUTF2; nuclear transport factor 2; NTF2; PP15; NTF-2; placental protein 15

**Gene ID** 10204

**mRNA Refseq** NM\_005796

**Protein Refseq** NP\_005787

**MIM** 605813

**UniProt ID** P61970

**Chromosome Location** 16q22.1

**Function** protein binding; protein transporter activity; transporter activity

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