

## p67phox Protein, Human, Recombinant (His & GST)

### General Information

Synonyms:	P67-PHOX;P67PHOX;neutrophil cytosolic factor 2;NCF-2;NOXA2
Protein Construction:	A DNA sequence encoding the human NCF2 (AAH01606.1) (Met1-Val526) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus. Predicted N terminal: Met
Species:	Human
Expression Host:	Baculovirus Insect Cells
Accession:	AAH01606.1
Molecular Weight:	87.6 kDa (predicted); 80-90 kDa (reducing conditions)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 20 mM Tris, 500 mM NaCl, 10% glycerol, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

**Reconstitution:**  
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

**Stability & Storage:**

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

**Shipping:**

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

NCF2 (Neutrophil Cytosolic Factor 2, also known as NCF-2 and p67phox) is a Protein Coding gene. 4 alternatively spliced human isoforms have been reported. This gene encodes neutrophil cytosolic factor 2, the 67-kilodalton cytosolic subunit of the multi-protein NADPH oxidase complex found in neutrophils. This oxidase produces a burst of superoxide which is delivered to the lumen of the neutrophil phagosome. NCF2 belongs to the NCF2/NOXA1 family. NCF2, NCF1, and a membrane-bound cytochrome b558 are required for activation of the latent NADPH

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oxidase. Mutations in the NCF2 gene, as well as in other NADPH oxidase subunits, can result in chronic granulomatous disease, a disease that causes recurrent infections by catalase-positive organisms.

### Reference

Wientjes FB. et al., 1996, Semin Cell Biol. 6 (6): 357-65.

DeLeo FR. et al., 1997, J Leukoc Biol. 60 (6): 677-91.

Dorseuil O. et al., 1997, C R Seances Soc Biol Fil. 191 (2): 237-46.

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