

## p67phox Protein, Human (sf9, His-GST)

Cat. No.:	HY-P74655
Synonyms:	Neutrophil cytosol factor 2; NCF-2; NOXA2; P67PHOX
Species:	Human
Source:	Sf9 insect cells
Accession:	P19878 (M1-V526)
Gene ID:	4688
Molecular Weight:	80-90 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of 20 mM Tris, 500 mM NaCl, 10% Glycerol, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	The p67phox protein plays a pivotal role in the activation of the latent NADPH oxidase, a process essential for superoxide production. As a key component of the NADPH oxidase complex, it forms a heterodimer with the membrane proteins CYBA and CYBB, alongside the cytosolic subunits NCF1, NCF2, and NCF4. Notably, p67phox interacts with NCF4 and NCF1, establishing crucial connections within the complex through its C-terminal SH3 domain. Additionally, it engages with SYTL1 and RAC1 and may interact with NOXO1, highlighting its versatility in associating with regulatory elements. Further interactions with S100A8, calprotectin (S100A8/9), and GBP7 underscore the intricate network involved in the regulation of NADPH oxidase activity. The interaction with CYBB is enhanced in the presence of GBP7, emphasizing the dynamic nature of these protein-protein associations in orchestrating superoxide generation.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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