

## CNDP2 Protein, Human (sf9, His)

Cat. No.:	HY-P76837
Synonyms:	Cytosolic non-specific dipeptidase; CNDP dipeptidase 2; Peptidase A; CN2; CPGL; HEL-S-13; PEPA
Species:	Human
Source:	Sf9 insect cells
Accession:	Q96KP4 (M1-D475)
Gene ID:	55748
Molecular Weight:	Approximately 54.2 kDa

### PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris, 100 mM NaCl, 0.5 mM PMSF, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/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	HO-2/HMOX2 protein serves as a catalyst in the oxidative cleavage of heme at the alpha-methene bridge carbon, liberating carbon monoxide (CO) and producing biliverdin IX <sub>α</sub> . This enzymatic process results in the release of the central heme iron chelate as ferrous iron. HO-2/HMOX2 plays a crucial role in the breakdown of heme, facilitating the controlled generation of signaling molecules such as CO and biliverdin. The release of CO, in particular, has various physiological implications, contributing to vascular homeostasis, anti-inflammatory responses, and cellular protection. This enzyme's activity is integral to the regulation of heme metabolism and the maintenance of cellular redox balance.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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