

## Recombinant Human HMGB2 / High Mobility Group Box 2,

### Animal Free & Carrier Free

Cat #: C-CYP285

Size: 5µg, 20µg, 100µg, 500µg, 1mg

Shipping: Blue Ice

### Product Overview

HMGB2 is a member of the non-histone chromosomal high-mobility group protein family, which are chromatin-associated and widely expressed in the nucleus of higher eukaryotic cells. HMGB2 can assist cooperative interactions between cis-acting proteins by promoting DNA flexibility through bending DNA to DNA circles. In addition, HMGB2 participates in the final ligation step in DNA end-joining processes of DNA double-strand breaks repair and V(D)J recombination.

### Product Information

**Source:** *Escherichia Coli*.

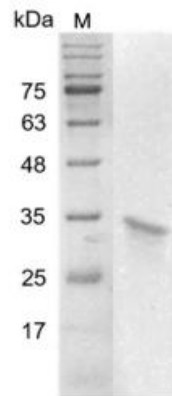
**Purity:** >98% as determined by SDS-PAGE. Ni-NTA chromatography.

**Endotoxin:** <0.1 EU per 1 µg of the protein by the LAL method.

**Amino acid sequence:**

MSPDKQAAALPRRERNRQAAAASPEMGKGDPNKPRGKMSSYAFFVQTCREEHKKKHPDSSVNFAEFSKKCSERWKTMSAKEKSKFED  
MAKSDKARYDREMKNYVPPKGDKKGKKKDPNAPKRPPSAFFLCSEHRPKIKSEHPGLSIGDTAKKLGEMWSEQSAKDKQPYEQKAAKL  
KEKYEKDIAAYRAKKGSEAGKKGPGRPTGSKKKNEPEDEEEEEEEEEDEEEEEDEEE with polyhistidine tag at the C-terminus.

**Formulation:** Lyophilized from a sterile filtered aqueous solution in 1xPBS, pH 8.0.



SDS-PAGE analysis of recombinant human HMGB2

## Usage Method

1. Before opening, it is recommended to centrifuge at 3000-3500 rpm for 5 minutes.
2. Reconstitute to a concentration of 0.1-1.0 mg/mL in sterile distilled H<sub>2</sub>O. Allow the solution to sit at room temperature for at least 20 minutes to ensure complete dissolution. Avoid vigorous vortexing.
3. The reconstituted solution can be stored at 2-8°C for up to 1 week.
4. For long-term storage, it is recommended to further dilute the solution with a carrier protein (such as 0.1% BSA, 10% FBS, or 5% HSA) to a concentration of no less than 10 µg/mL and aliquot for storage at -20°C to -80°C for 3 to 6 months. If serum-free experiments are required, a 5% trehalose solution can be used as a carrier instead. Avoid repeated freeze-thaw cycles.

## Storage

Physical Appearance	Storage	Stability
Lyophilized powder	-20°C to -80°C	1 year
Reconstitution (initial)	2°C to 8°C	Less than 1 week
Reconstitution (after dilution)	-20°C to -80°C	3 to 6 months

## Note

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.