

Disulfide-HMGB1, LPS-free

Product Number: *****
Expiration date: *****
Batch number: *****
Batch concentration: ***** mg/mL after addition of
 ***** μ L of distilled water.

Product Description:

Disulfide-HMGB1 (complete notation: HMGB1C23-C45C106h - Antoine J. *et al* (2014).Mol Med) can induce cytokine and chemokine production in monocytes and other inflammatory cells. This activity depends on a specific redox state of HMGB1 (Venereau *et al*, 2012). This product is produced in *E.coli* and is tested for the ability to stimulate cytokine production in mouse macrophages. The protein is free from LPS (<0.1EU/mL). The product contains <0.006% v/v of Triton X-114 due to LPS removal procedure.

Reagent format:

The Disulfide-HMGB1 protein we provide is the natural protein, with no tags or additional amino acids.

The lyophilized protein once reconstituted will be dissolved in a solution containing 50 mM HEPES buffer, pH 7.9 and 500 mM NaCl.

Storage: 2-8°C. The protein once resuspended can be stored frozen (-20°C).

How to use product:

The product can be used as a pro-inflammatory mediator (Venereau *et al*, 2012).

This product is for research use only

References:

- Ge X. *et al* (2024) Redox-sensitive high-mobility group box-1 isoforms contribute to liver fibrosis progression and resolution in mice J.Hepatol PMID: 37989401
- Zhou X. *et al* (2024) Glycyrrhizin Protects Submandibular Gland Against Radiation Damage by Enhancing Antioxidant Defense and Preserving Mitochondrial Homeostasis. Antioxid Redox Signal PMID: 38069572
- Venereau E. *et al* (2012) Mutually exclusive redox forms of HMGB1 promote cell recruitment or proinflammatory cytokine release J Exp Med. 209: 1519–1528.

MGKGDPPKKPR	GKMSSYAFFV	QTCREEHKKK
HPDASVNFSE	FSKKCSERWK	TMSAKEKGKF
EDMAKADKAR	YEREMKTYIP	PKGETKKKFK
DPNAPKRPPS	AFFLFCSEYR	PKIKGEHPGL
SIGDVAKKLG	EMWNNTAADD	KQPYEKKAAC
LKEYEKDIA	AYRAKGKPA	AKKGVVKAEC
SKKKKEEEED	EDEEDEEEED	EDEEDEEEED

Fig. 1. Disulfide-HMGB1 sequence

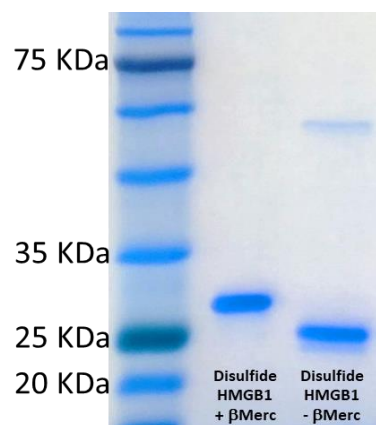


Fig. 2. SDS-PAGE with Coomassie Blue staining

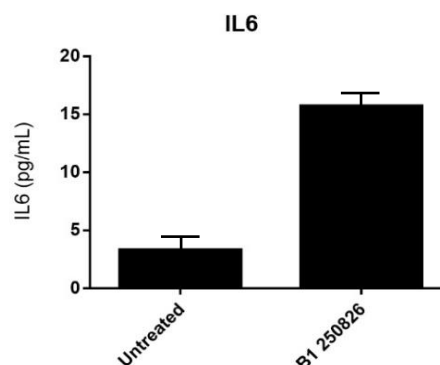


Fig. 3. Disulfide-HMGB1 induces cytokine production. Mouse macrophages were exposed to 10 μ g/ml HMGB1 for 24 hours at 37°C, and the levels of IL-6 were measured by ELISA relative to unexposed macrophages.