



Non-oxidizable chemokine-HMGB1, LPS free

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

Product Description:

This product is a mutant protein where all cysteines are replaced with serines.

Non-oxidizable chemokine-HMGB1, LPS free, has chemoattractant activity *in vitro* and *in vivo*, does not have cytokine-inducing activity and is resistant to inactivation by ROS (Venereau *et al*, 2012).

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 and is tested for the ability to induce fibroblast migration.

Reagent format:

The lyophilized protein once reconstituted will be dissolved in a solution containing 50 mM HEPES pH 7.9, 500 mM NaCl, 0,5 mM DTT.

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

How to use product:

The product can be used to recruit leukocytes *in vivo* without inducing cytokine/chemokine production (Venereau *et al*, 2012).

This product is for research use only

References:

- Chen J.Q. *et al* (2022) Nonoxid-HMGB1 Attenuates Cognitive Impairment After Traumatic Brain Injury in Rats. *Front Med.* 11:9:827585
- Tirone M. *et al* (2018) High mobility group box 1 orchestrates tissue regeneration via CXCR4. *J Exp Med* 215(1):303-318
- Venereau E. *et al* (2012) Mutually exclusive redox forms of HMGB1 promote cell recruitment or proinflammatory cytokine release. *J Exp Med* 209

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MGKGDPPKKPR  GKSSSYAFFV  QTSREEHKKK
HPDASVNFSE   FSKKSSERWK  TMSAKEKGKF
EDMAKADKAR   YEREMKTYIP  PKGETKKKFK
DPNAPKRPPS   AFFLFSSEYR  PKIKGEHPGL
SIGDVAKKLG   EMWNNTAADD  KQPYEKKAAC
LKEKYEKDIA   AYRAKGKPD   AKKGVVKAEC
SKKKKEEEED   EDEEDEEEEE  EDEEDEDEEE
DDDDDE
  
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Fig. 1. Non-oxidizable-HMGB1 sequence

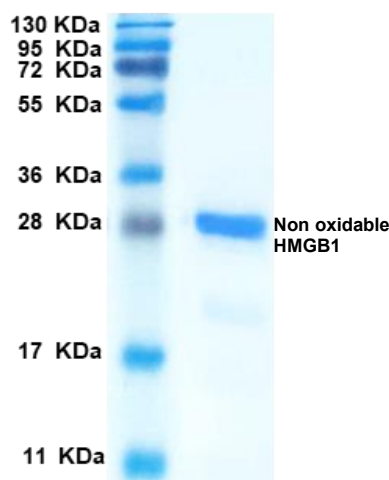


Fig. 2. SDS-PAGE with Coomassie Blue staining

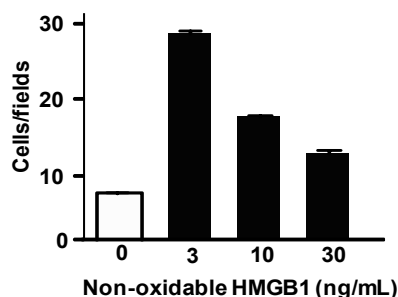


Fig. 3. Migration assay with 3T3 mouse cells