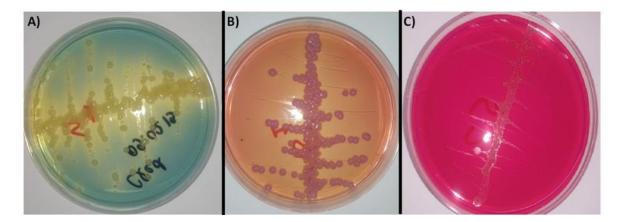
A single dose of eHSP72 administration attenuates sepsis severity in mice

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Supplementary material 1.

Supplementary methods:



Supplementary Figure 1. Representative images from bacterial analyses of faecal solution administered in mice for sepsis induction. Faecal solution was prepared in sterile NaCl 0.9% solution (100 mg/ml). Bacterial colonies were analysed by two independent evaluators. (A) In the Agar Cled medium (INTERLAB) (A) were identified colonies of *Escherichia coli* and *Staphylococcus aureus*. Thus, the CFU count were performed in (B) Agar MacConkey (HIMEDIA) and (C) Agar Sal mannitol IO053 (IONLAB) by incubation at 35 °C (\pm 2) by 24 h. We found 216 \pm 0.707 colonies of *E. coli* and 494 \pm 9.192 of *S. aureus*. Since the sample volume used in this analysis was 50 μ L, representing five milligrams of faeces and was administered at the dose of 1 mg/g per animal, we estimated that 43 CFUs/g of *E. coli* and 99 CFUs/g of *S. aureus* were i.p. administered for sepsis induction.

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Murine Sepsis Score (MSS) (SHRUM et al., 2014)

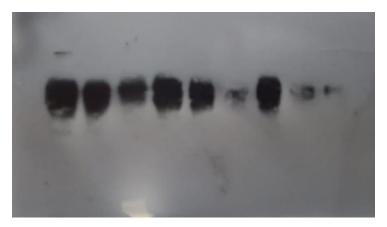
Variable	Score and description
	0- Coat is smooth
Appearance	1- Patches of hair piloerected
	2- Majority of back is piloerected
	3- Piloerection may or may not be present, mouse appears
	"puffy"
	4- Piloerection may or may not be present, mouse appears
	emaciated
Level of consciousness	0- Mouse is active
	1- Mouse is active but avoids standing upright
	2- Mouse activity is noticeably slowed. The mouse is still
	ambulant.
	3- Activity is impaired. Mouse only moves when provoked,
	movements have a tremor
	4- Activity severely impaired. Mouse remains stationary
	when provoked, with possible tremor
	0- Normal amount of activity. Mouse is any of: eating,
Activity	drinking, climbing, running, fighting
	1- Slightly suppressed activity. Mouse is moving around
	bottom of cage
	2- Suppressed activity. Mouse is stationary with occasional
	investigative movements
	3- No activity. Mouse is stationary
	4- No activity. Mouse experiencing tremors, particularly in
	the hind legs
	ŭ
	0- Mouse responds immediately to auditory stimulus or
	touch
	1- Slow or no response to auditory stimulus; strong response
	to touch (moves to escape)
	2- No response to auditory stimulus; moderate response to
	touch (moves a few steps)
	3- No response to auditory stimulus; mild response to touch
Response to stímulus	(no locomotion)
	4- No response to auditory stimulus. Little or no response to
	touch. Cannot right itself if pushed over
	0- Open
	1- Eyes not fully open, possibly with secretions
	2- Eyes at least half closed, possibly with secretions
Eyes	3- Eyes half closed or more, possibly with secretions
•	4- Eyes closed or milky
	0- Normal, rapid mouse respiration
	1- Slightly decreased respiration (rate not quantifiable by
Respiration rate	eye)
	2- Moderately reduced respiration (rate at the upper range of
	quantifying by eye)
	3- Severely reduced respiration (rate easily countable by
	eye, 0.5 s between breaths)
	4- Extremely reduced respiration (>1 s between breaths)
	0- Normal
	1- Brief periods of laboured breathing
Respiration quality	2- Laboured, no gasping
	3- Laboured with intermittent gasps
	4- Gasping
	4- Gasping

Supplementary data:

Original immunoblots images supplementary information of figure 6d (HSP70 β -actin expression in lung of mice).

Bands represents HSP70 expression in the lung of mice.

The sequence of the Blots is Control; Sepsis and Sepsis+eHSP72 (repeatedly)



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