1 Effect comparison of inulin with different molecular weight

2 ameliorates intracerebral neuroinflammation induced by advanced

3 glycation end products (AGEs) in the diabetic mice

- 4 Yanqi Li †, Aizhen Zong†, Cuiju Xu, Lina Liu, Yashi Zhang, Baorui Li, Fangling
 5 Du*, Tongcheng Xu*
- 6 Institute of Food & Nutrition Science and Technology, Shandong Academy of
 7 Agricultural Sciences/ Key Laboratory of Agro-Products Processing Technology of
 8 Shandong Province/ Key Laboratory of Novel Food Resources Processing, Ministry
 9 of Agriculture and Rural Affairs/ Shandong Engineering Research Center of Food for
 10 Special Medical Purpose, Jinan, PR China

11 *†* These authors contributed equally to this study.

12 *Corresponding author:

- 13 Tongcheng Xu, E-mail: xtc@live.com
- 14 Fangling Du, E-mail: fsmp@126.vip.com

15 Funding sources

- 16 This study is financially supported by the National Key R&D Program of China (No.
- 17 2023YFF1104303), Agriculture Scientific and Technological Innovation Program of
- 18 Shandong Academy of Agriculture Sciences (CXGC2024F09), Tai Mountain Industry
- 19 Leading Talent of Shan Dong for Fangling Du (No. tscx.202408121).

20 Disclosure statement

21 The authors declare no competing financial interest.

22 SUPPLEMENTARY INFORMATION

-
2
э

Table. S1 Compositions of animals' experimental diet

Compositions (g.kg ⁻¹)	N LFSD (#D12328)	Mod HFSD (#D12331)	L/ M/ H/ SH HFSD (#D12331)
Casein	200	200	200
Cornstarch	650	250	200
Sucrose		200	200
Corn oil	50	50	50
Lard		200	200
Mineral mix	35	35	35
Vitamin mix	10	10	10
Cellulose	50	50	50
Choline	3	3	3
Bitartrate			
DL-methionine	2	2	2
Inulin			50