PRODUCT INFORMATION

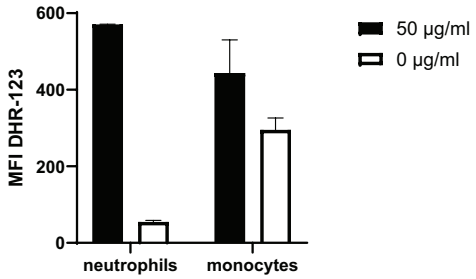
Immune Complexes (Precipitating, BSA-Antibody)

Item No. 46363

Overview and Properties

Contents:	This vial contains 1 mg of immune complexes in PBS
Form:	Liquid
Storage:	-80°C (as supplied)
Stability:	≥2 years
Storage Buffer:	PBS, pH 7.2
Host:	Rabbit
Applications:	Addition to cell culture media for stimulation of primary human leukocytes at 50 µg/ml. Other species and applications were not tested, therefore optimal working concentration/dilution should be determined empirically.

Image



Immune complexes stimulate whole blood neutrophil respiratory burst. Human peripheral blood leukocytes were stimulated with 50 µg/ml Immune Complexes (Precipitating, BSA-Antibody) (Item No. 46363) or left unstimulated for 2 hours at 37°C in RPMI + 1% BSA + 1 mM $CaCl_2$. Cells were stained for 10 minutes with 0.5 µg/ml dihydrorhodamine 123 (DHR 123; Item No. 85100), washed, and analyzed by flow cytometry. Neutrophils and monocytes were identified by scatter and the mean fluorescence intensity (MFI) of the probe in the green channel was plotted.

Description

Immune Complexes (Precipitating, BSA-Antibody) are composed of BSA coated with an anti-BSA rabbit polyclonal antibody at a saturating concentration.. Similar BSA-anti-BSA antibody immune complexes have been used to stimulate respiratory burst in M1-polarized bone marrow-derived macrophages (BMDMs) and peritoneal macrophages (pMACs) and to induce reactive oxygen species (ROS) production in BMDMs through Fcγ receptor (FcγR) cross-linking.[1,2] Cayman's Immune Complexes (Precipitating, BSA-Antibody) can be used for cell culture applications to elicit innate immune responses.

References

1. Zajd, C.M., Ziemba, A.M., Miralles, G.M., *et al*. Bone marrow derived and elicited peritoneal macrophages are not created equal: The questions asked dictate the cell type used. *Front. Immunol.* **11**, 269 (2020).
2. Franchini, A.M., Hunt, D., Melendez, J.A., *et al*. FcγR-driven release of IL-6 by macrophages requires NOX2-dependent production of reactive oxygen species. *J. Biol. Chem.* **288(35)**, 25098-25108 (2013).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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