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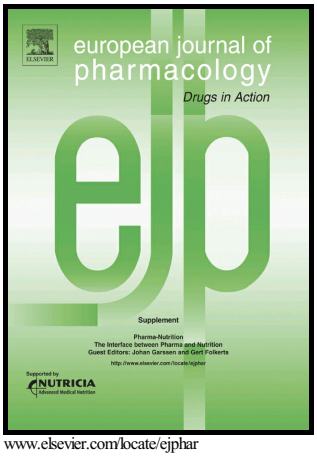

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PII: S0014-2999(18)30524-7
DOI: https://doi.org/10.1016/j.ejphar.2018.09.007
Reference: EJP71976

To appear in: *European Journal of Pharmacology*

Received date: 22 June 2018
Revised date: 16 August 2018
Accepted date: 5 September 2018

Cite this article as: Kaori Kubo, Yuka Kawato, Koji Nakamura, Yutaka Nakajima, Terry Y Nakagawa, Kaori Hanaoka, Shinsuke Oshima, Hidehiko Fukahori, Masamichi Inami, Tatsuaki Morokata and Yasuyuki Higashi, Effective suppression of donor specific antibody production by Cathepsin S inhibitors in a mouse transplantation model, *European Journal of Pharmacology,* https://doi.org/10.1016/j.ejphar.2018.09.007

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Effective suppression of donor specific antibody production by Cathepsin S inhibitors in a mouse transplantation model

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Accepted manuscript

Abstract

Donor-specific antibodies (DSA) are a major risk factor for antibody-mediated rejection (ABMR) in solid organ transplantation, and ABMR remains a medical challenge. Therefore, effective anti-ABMR therapies are needed to improve overall graft survival. Cathepsin S (Cat S) is an essential protease for antigen peptide loading onto lysosomal/endosomal major histocompatibility complex (MHC) class II molecules to promote antigen presentation. Cat S deficiency produces immuno-deficient phenotypes including a suppressed humoral immune response, and Cat S

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