## Accepted Manuscript

Mutational analysis of the extracellular disulphide bridges of the atypical chemokine receptor ACKR3/CXCR7 uncovers multiple binding and activation modes for its chemokine and endogenous non-chemokine agonists

Martyna Szpakowska, Max Meyrath, Nathan Reynders, Manuel Counson, Julien Hanson, Jan Steyaert, Andy Chevigné

PII: S0006-2952(18)30096-0

DOI: https://doi.org/10.1016/j.bcp.2018.03.007

Reference: BCP 13084

To appear in: Biochemical Pharmacology

Received Date: 11 February 2018 Accepted Date: 7 March 2018



Please cite this article as: M. Szpakowska, M. Meyrath, N. Reynders, M. Counson, J. Hanson, J. Steyaert, A. Chevigné, Mutational analysis of the extracellular disulphide bridges of the atypical chemokine receptor ACKR3/CXCR7 uncovers multiple binding and activation modes for its chemokine and endogenous non-chemokine agonists, *Biochemical Pharmacology* (2018), doi: https://doi.org/10.1016/j.bcp.2018.03.007

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## **ACCEPTED MANUSCRIPT**

Mutational analysis of the extracellular disulphide bridges of the atypical chemokine receptor ACKR3/CXCR7 uncovers multiple binding and activation modes for its chemokine and endogenous non-chemokine agonists

Martyna Szpakowska<sup>1,2,Ψ</sup>, Max Meyrath<sup>1,Ψ</sup>, Nathan Reynders<sup>1,3</sup>, Manuel Counson<sup>1</sup>, Julien Hanson<sup>4</sup>, Jan Steyaert<sup>2</sup> and Andy Chevigné<sup>1\*</sup>

#### **Short title:**

Atypical presence and function of disulphide bridges in ACKR3/CXCR7

Keywords: chemokine receptor, CXCR7, ACKR3, CXCR4, BAM22, CXCL12, adrenomedullin

<sup>&</sup>lt;sup>1</sup> Department of Infection and Immunity, Immuno-Pharmacology and Interactomics, Luxembourg Institute of Health (LIH), L-4354 Esch-sur-Alzette, Luxembourg

<sup>&</sup>lt;sup>2</sup> Structural Biology Brussels, Vrije Universiteit Brussel, B-1050 Brussels, Belgium

<sup>&</sup>lt;sup>3</sup> Faculty of Science, Technology and Communication, University of Luxembourg, L-4365 Eschsur-Alzette, Luxembourg

<sup>&</sup>lt;sup>4</sup>Laboratory of Molecular Pharmacology, GIGA-Molecular Biology of Diseases, GIGA B34, University of Liège, 11 Avenue de l'Hôpital, B-4000, Liège, Belgium

<sup>&</sup>lt;sup>Ψ</sup>Both authors contributed equally

<sup>\*</sup> To whom correspondence should be addressed: Dr. Andy Chevigné, Immuno-Pharmacology and Interactomics, Department of Infection and Immunity, Luxembourg Institute of Health (LIH), 29, rue Henri Koch, L-4354 Esch-sur-Alzette, Luxembourg. Tel: +352 26970-336; Email: andy.chevigne@lih.lu

### Download English Version:

# https://daneshyari.com/en/article/8523952

Download Persian Version:

https://daneshyari.com/article/8523952

<u>Daneshyari.com</u>