

## Supplemental Data

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**Arachidonic acid directly activates the human DP2 receptor**

Michael Kurz<sup>1</sup>, Michaela Ulrich<sup>1</sup>, Sina B. Kirchofer<sup>1</sup>, Alwina Bittner<sup>1</sup>, Michael Daude<sup>2</sup>, Wibke E.

Diederich<sup>2</sup>, Kim Pauk<sup>3</sup>, Holger Garn<sup>3</sup> and Moritz Bünemann<sup>1</sup>

<sup>1</sup>Institute for Pharmacology and Clinical Pharmacy, Faculty of Pharmacy,

Philipps-University Marburg, Marburg, Germany

<sup>2</sup>Institute for Pharmaceutical Chemistry, Faculty of Pharmacy, Philipps-University Marburg, Marburg,

Germany

<sup>3</sup>Translational Inflammation Research Division and Core Facility for Single Cell Multiomics, Member

of the German Center for Lung Research (DZL) and the Universities of Giessen and Marburg Lung

Center (UGMLC, Philipps-University Marburg, Marburg, Germany)

## Supplemental Tables

**Table S1:** Preparation of stock solutions and formal names of utilized compounds

Ligand	Stock concentration (solvent)	Formal name
Acetyl salicylic acid	100 mM (DMSO)	2-(acetyloxy)-benzoic acid
Arachidonic acid	300 mM (Ethanol) <i>Single cell measurements: 300 mM (DMSO)</i>	5Z,8Z,11Z,14Z-eicosatetraenoic acid
Prostaglandin D <sub>2</sub>	50 mM (Ethanol) <i>Single cell measurements: 2.5 mM (Ethanol)</i>	9 $\alpha$ ,15S-dihydroxy-11-oxo-prosta- 5Z,13E-dien-1-oic acid
Prostaglandin E <sub>2</sub>	50 mM (DMSO)	9-oxo-11 $\alpha$ ,15S-dihydroxy-prosta- 5Z,13E-dien-1-oic acid
Arachidonil Ethanolamide (AnA)	144 mM (Ethanol)	N-(2-hydroxyethyl)-5Z,8Z,11Z,14Z- eicosatetraenamide
Eicosapentaenoic Acid (EPA)	300 mM (Ethanol)	5Z,8Z,11Z,14Z,17Z-eicosapentaenoic acid
$\alpha$ -Linolenic Acid (ALA)	300 mM (Ethanol)	9Z,12Z,15Z-octadecatrienoic acid
$\gamma$ -Linolenic Acid (GLA)	300 mM (Ethanol)	6Z,9Z,12Z-octadecatrienoic acid
Dihomo- $\gamma$ -Linolenic Acid (DHGLA)	300 mM (Ethanol)	8Z,11Z,14Z-eicosatrienoic acid
nordihydroguaiaretic acid (NDGA)	10 mM (DMSO)	4,4'-(2,3-dimethyl-1,4-butanediyl)bis- 1,2-benzenediol

AZD1981	50 mM (DMSO)	4-(acetylamino)-3-[(4-chlorophenyl)thio]-2-methyl-1H-indole-1-acetic acid
17-Octadecynoic Acid (ODYA)	1 mM (DMSO)	17-Octadecynoic Acid