

**Supplementary Table S1.** BLM-induced cytokine molecules in BALF that were correlated with intrinsic p38 activity in the lungs.

Pro-fibrotic cytokines Name	Induction Index (Arbitrary unit)		
	DN	WT	CA
<b>IL-13</b>	5.2	6.5	15.0
<b>IL-17</b>	8.5	32.2	43.5
<b>SDF-1/CXCL12</b>	2.9	5.4	7.2

Pro-inflammatory mediators Name	Induction Index (Arbitrary unit)		
	DN	WT	CA
CCL1/TCA-3	2.5	5.8	6.8
Eotaxin/CCL11	4.0	39.0	62.0
<b>IFN-<math>\gamma</math></b>	6.7	8.6	14.2
IL-15	3.5	6.0	14.0
<b>KC/CXCL1</b>	5.8	7.6	11.7
LIX/CXCL5	2.2	2.7	4.3
<b>MIG/CXCL9</b>	2.9	5.0	11.9
<b>MIP-1<math>\alpha</math>/CCL3</b>	17.6	29.0	33.6
MIP-2/CXCL2	3.5	5.2	6.4
<b>RANTES/CCL5</b>	37.4	49.0	65.7
Thymus chemokine-1/CXCL7	1.4	2.8	5.4

Fibrosis-related proteins Name	Induction Index (Arbitrary unit)		
	DN	WT	CA
Activin A	1.3	2.4	4.2
CXCL14	3.1	10.4	11.6
IGFBP-2	4.3	5.8	8.3
IGFBP-3	4.2	5.6	8.1
IGFBP-5	2.3	26.6	64.1
IL-22	11.0	26.0	49.0
<b>MMP-2</b>	3.7	6.5	9.4
<b>MMP-3</b>	15.0	41.0	88.2
<b>MMP-9</b>	4.0	17.0	93.7

Others Name	Induction Index (Arbitrary unit)		
	Ind_DN	Ind_WT	Ind_CA
Cardiotrophin-1	7.5	30.0	42.5
<b>CCL28</b>	6.1	13.3	16.4
CCR9	2.7	3.5	5.5
CD11b	3.2	4.1	6.4
CD27 Ligand	3.5	6.7	8.6
IL-2R $\gamma$	9.7	17.3	23.1
CTACK	3.5	9.3	10.4
Dtk	2.5	3.9	5.3
EGF R	11.3	30.6	39.7
EG-VEGF	10.7	14.0	20.7
Endogrin/CD105	4.2	18.8	27.2
Eotaxin-2	10.2	31.6	34.3
FGF R3	6.7	8.6	15.2
Follistatin	1.2	3.8	8.1
Frizzled-1	1.2	4.9	8.5

GDF-5	28.5	47.5	61.0
GDF-8	27.8	46.7	65.9
GDF-9	9.0	33.0	42.0
GDNF R $\alpha$ -2	1.7	24.0	58.0
IFN- $\gamma$ R1	3.4	4.3	6.7
IGFBP-1	3.6	5.0	8.0
IGFBP-6	5.0	29.0	43.5
IL-1 RII	4.4	7.4	10.2
IL-3 R $\alpha$	8.3	86.4	113.6
IL-15 R $\alpha$	2.3	3.9	6.0
IL-16	4.6	7.5	10.1
IL-23 R	2.1	2.8	3.9
Kremen-1	4.9	17.4	28.3
Lungkine/CXCL15	3.2	4.0	5.8
Lymphotoxin $\beta$ R	3.8	4.9	7.3
MAdCAM-1	5.7	18.7	25.7
MDC/CCL22	14.5	19.5	43.5
Osteoactivin	2.4	3.3	5.9
Osteoprotegerin	29.0	44.0	81.5
PDGF C	4.7	9.5	13.0
PDGF R $\alpha$	4.4	6.3	8.2
PIGF 2	5.0	14.3	22.7
Prolactin	2.3	3.2	4.6
P-selectin	2.2	2.7	4.1
Resistin	13.4	20.6	29.6
SIGIRR	3.5	24.5	32.3
Soggy-1	1.3	3.5	4.8
Spinesin Ectodomain	1.6	2.0	4.5
TGF- $\beta$ 3	6.0	22.1	35.6
TGF- $\beta$ RII	2.5	3.5	4.7
TIMP-2	4.1	6.7	7.8
TIMP-4	24.1	44.1	52.7
TLiA/TNFSF15	6.7	16.0	31.0
TNF RI	1.9	6.8	13.1
TNF- $\beta$	1.5	3.6	5.7
TRANCE/TNFSF11	8.8	19.0	36.0
TWEAK	30.0	62.0	70.0
TWEAK R	2.9	4.0	4.9
WIF-1	15.3	34.7	57.3