# GB-0895, a high-affinity anti-TSLP mAb, demonstrates prolonged half-life and sustained pharmacological activity supporting every 6-month dosing in asthma

## Generate: Biomedicines

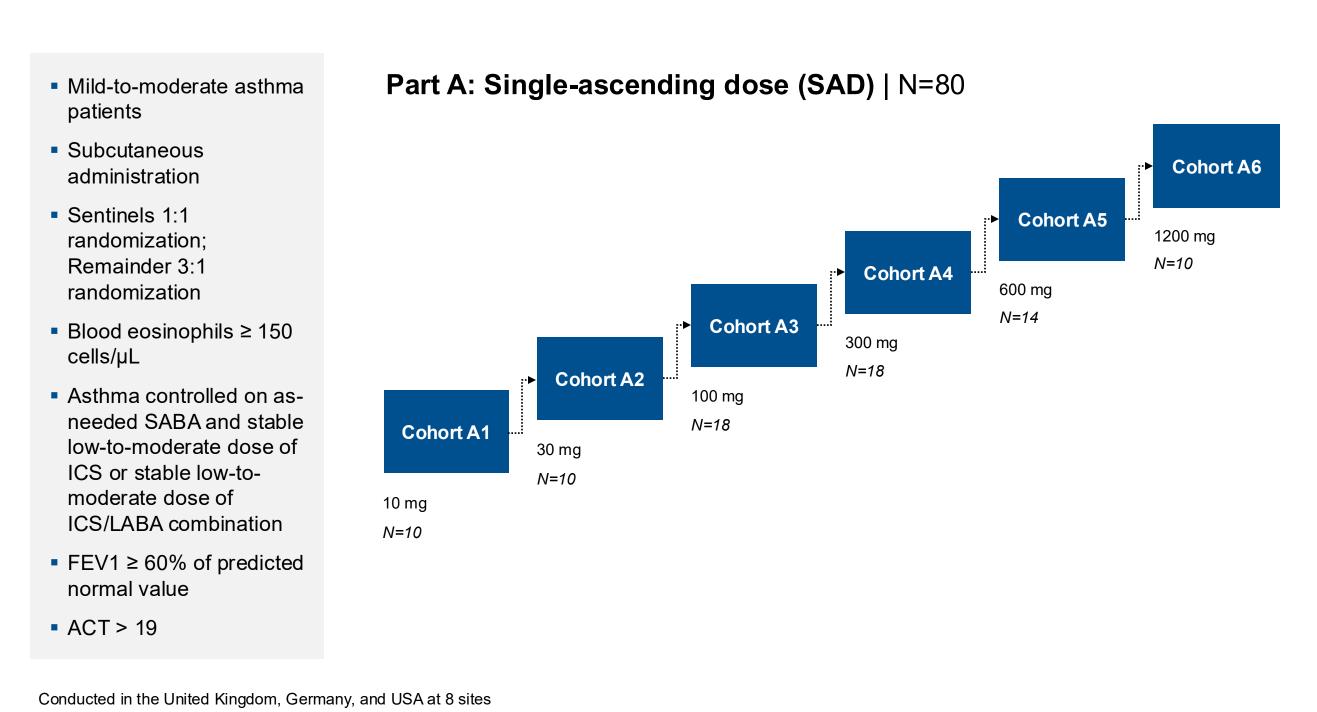
Dave Singh<sup>1</sup>, Victoria Szenes<sup>2</sup>, Andreas Eich<sup>3</sup>, Brian Leaker<sup>4</sup>, Philipp Badorrek<sup>5</sup>, Stanislav Ignatenko<sup>6</sup>, Annelize Koch<sup>7</sup>, Denisa Wilkes<sup>8</sup>, Trisha Shamp<sup>9</sup>, Antonios Aliprantis<sup>10</sup>, Karima Amiri<sup>2</sup>, Heather van Epps<sup>2</sup>, Lovely Goyal<sup>2</sup>, Kapil Mayawala<sup>2</sup>, Andrew Robertson<sup>2</sup>, Stephanie Straley<sup>2</sup>, Sacha Prashad<sup>2</sup>, Oliver Kornmann<sup>3</sup>

#### Aims of Study

- Thymic stromal lymphopoietin (TSLP) is a validated target in asthma that drives lung inflammation
- Generate:Biomedicines developed GB-0895, a next generation, anti-TSLP mAb with
- ~20-fold higher affinity for TSLP compared to tezepelumab
- YTE Fc modifications for extended half-life
- Here we present interim data from an ongoing phase 1 randomized, placebo-controlled trial in participants with mild to moderate asthma
- The study aimed to characterize safety, pharmacokinetics, and pharmacodynamics of GB-0895
- All safety data are summarized by blinded cohorts
- PK/PD data are presented in aggregate across active doses versus placebo to maintain trial integrity
- Only data from the Part A (single ascending dose) are presented

### **Study Design**

GB-0895 Phase 1, Double Blind, Placebo-Controlled Clinical Trial in Mild-to-Moderate Asthma Patients



MAD portion of study enrolled an additional 16 participants

#### Results

Baseline characteristics are consistent across cohorts of our Ph 1 study

	Cohort A1 10mg (N=10)	Cohort A2 30mg (N=10)	Cohort A3 100mg (N=18)	Cohort A4 300mg (N=18)	Cohort A5 600mg (N=14)	Cohort A6 1200mg (N=10)	Total (N=80)
Age, years Mean (SD)	40 (12)	42 (12)	40 (13)	41 (13)	36 (13)	41 (11)	40 (13)
Sex, M/F %	70/30	50/50	72/28	56/44	50/50	70/30	61/39
Baseline Eos, cells/uL Mean (SD)	255 (123)	231 (59)	276 (166)	269 (110)	338 (136)	244 (100)	273 (126)
FEV1, Predicted % Mean (SD)	87.5 (9.9)	88.0 (19.8)	85.8 (9.2)	90.3 (11.9)	85.9 (11.1)	92.6 (10.7)	88.2 (12.0)
FeNO, PPB Mean (SD)	37.7 (12.4)	25.8 (19.8)	34.8 (33.1)	32.7 (24.6)	33.6 (13.6)	28.8 (27.8)	32.6 (23.8)
ACT Score Mean (SD)	21.7 (1.7)	23.7 (1.3)	23.2 (1.7)	22.6 (1.7)	23.0 (1.6)	22.5 (1.5)	22.8 (1.7)

Each cohort includes randomized active and placebo participants; presented blinded to preserve trial integrity

#### GB-0895 has been well-tolerated

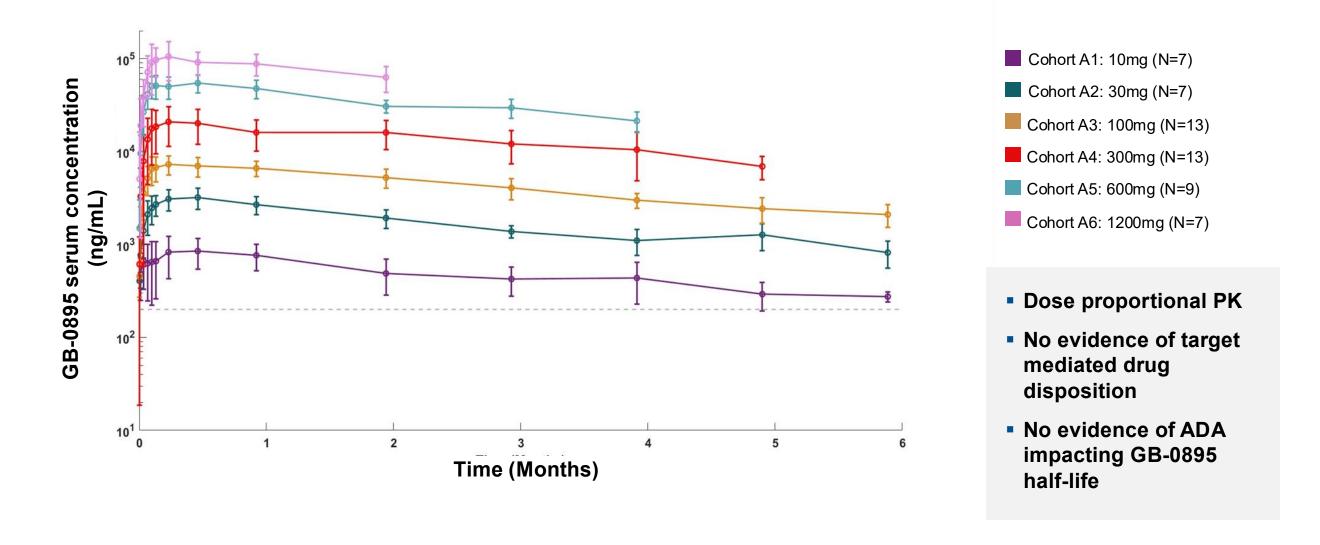
Safety data are summarized by blinded cohorts including active and placebo subjects

- 80 subjects received a single dose of GB-0895 or placebo; followed ≥ 26 weeks
- Most common TEAEs by PT (≥10% incidence in all treatment groups): nasopharyngitis, rhinitis, headache
- 3 SAEs reported: Occurred in cohort A3: 100mg (n=2) and cohort A4: 300mg (n=1)
- All Grade 3, Not Related to study drug
   All other TEAEs mild-moderate in severity (Grade 1-2); ISR all Grade 1
- No trend in increasing incidence or severity of TEAEs vs dose

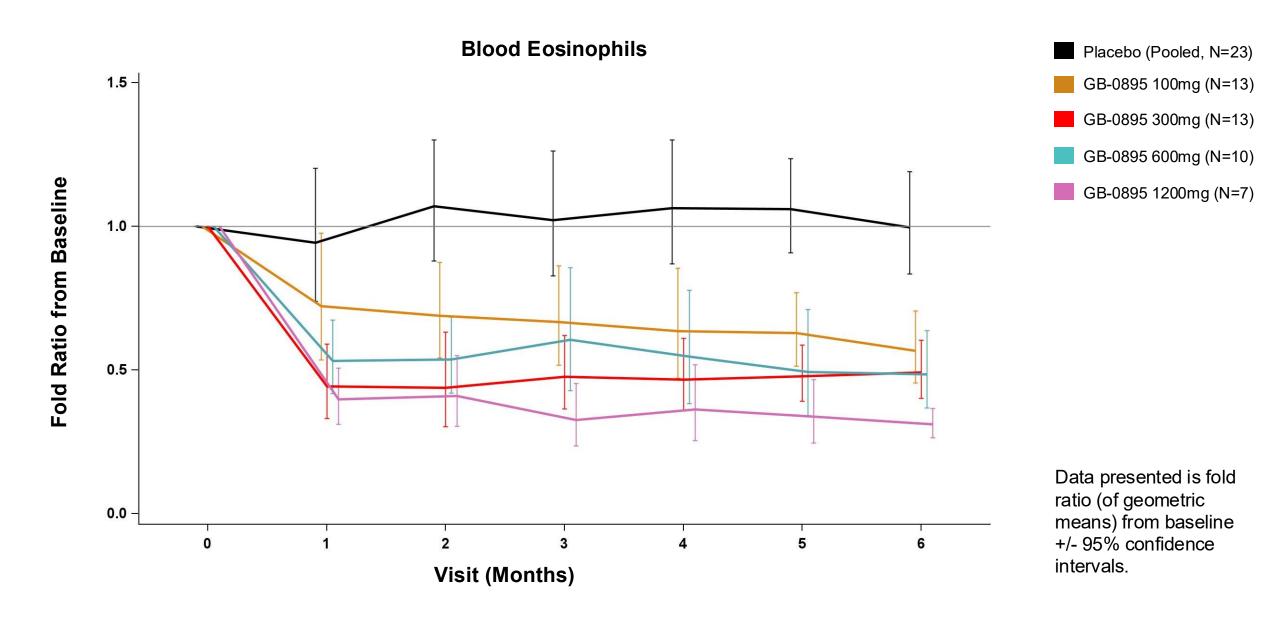
Subject Incidence of:	Cohort A1 (10mg) N=10	Cohort A2 (30mg) N=10	Cohort A3 (100mg) N=18	Cohort A4 (300mg) N=18	Cohort A5 (600mg) N=14	Cohort A6 (1200mg) N=10	Total N=80
Any TEAE	9 (90.0%)	8 (80.0%)	18 (100%)	17 (94.4%)	12 (85.7%)	9 (90.0%)	73 (91.3%)
Any ISR*	1 (10.0%)	0 (0.0%)	1 (5.6%)	3 (16.7%)	4 (28.6%)	1 (10.0%)	10 (12.5%)

\*ISRs include AEs reported under the MedDRA High Level Term 'Injection Site Reactions'
TEAE = Treatment emergent adverse event; ISR = Injection Site Reaction; SAE = Serious adverse event, PT = Preferred Term

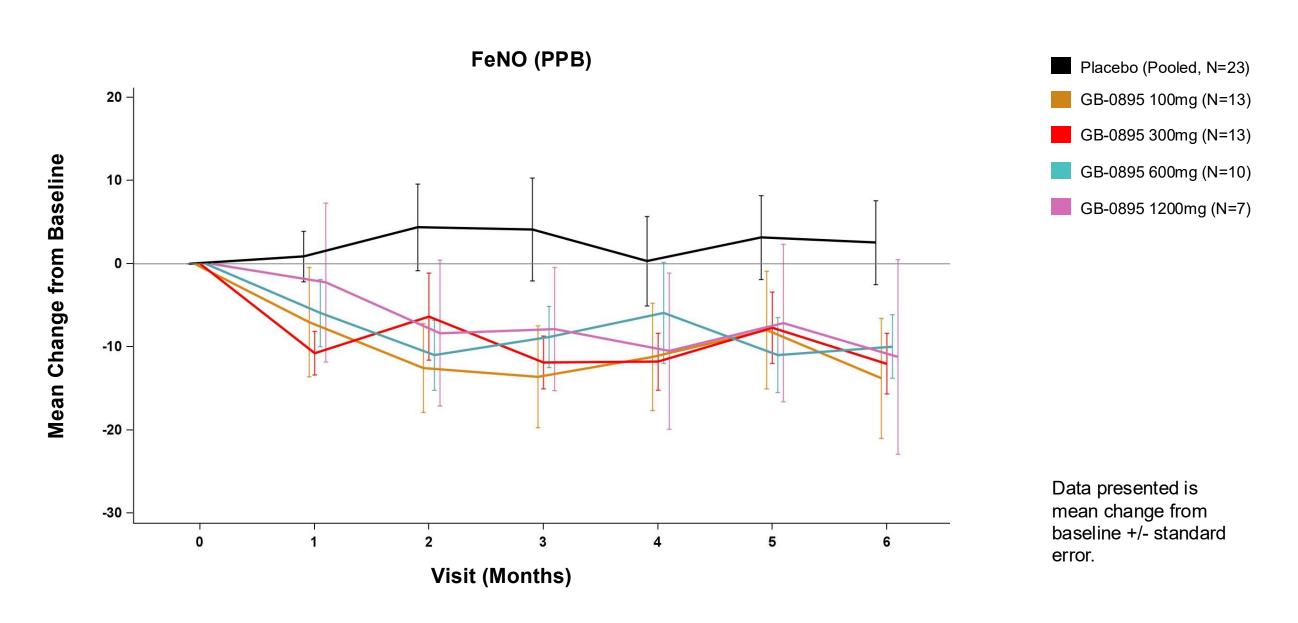
#### Clinical PK data for GB-0895 show half-life of ~89 days



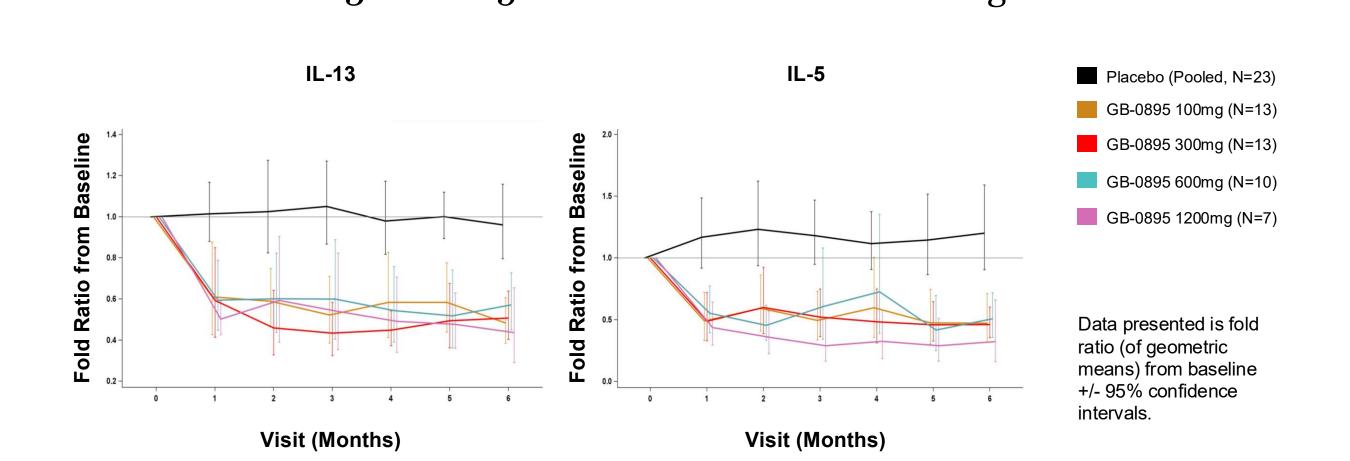
A single subcutaneous administration of GB-0895 leads to sustained reductions in blood eosinophils for 6 months at 100-1200 mg doses



A single subcutaneous administration of GB-0895 leads to sustained reductions in FeNO for 6 months at 100-1200 mg doses



A single subcutaneous administration of GB-0895 leads to sustained reductions in IL-13 and IL-5 for 6 months at 100-1200 mg doses



#### Conclusions

- GB-0895 has been well tolerated
- GB-0895 demonstrates doseproportional pharmacokinetics with a half-life of ~89 days
- A single subcutaneous dose provides 6 months of pharmacologic activity, as evidenced by reductions in EOS, FeNO, IL-5, and IL-13
- Broad anti-inflammatory activity of GB-0895 is consistent with the mechanism of action as previously reported with tezepelumab
- These data support dosing of GB-0895 subcutaneously every 6-months for severe asthma

PHASE 3 TRIALS OF
GB-0895 EXPECTED TO INITIATE
IN Q4 2025



