



Results from a Phase 1 Study

EVO756, an oral MRGPRX2 antagonist, is well-tolerated and demonstrates target engagement

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Conflict of Interest Disclosure

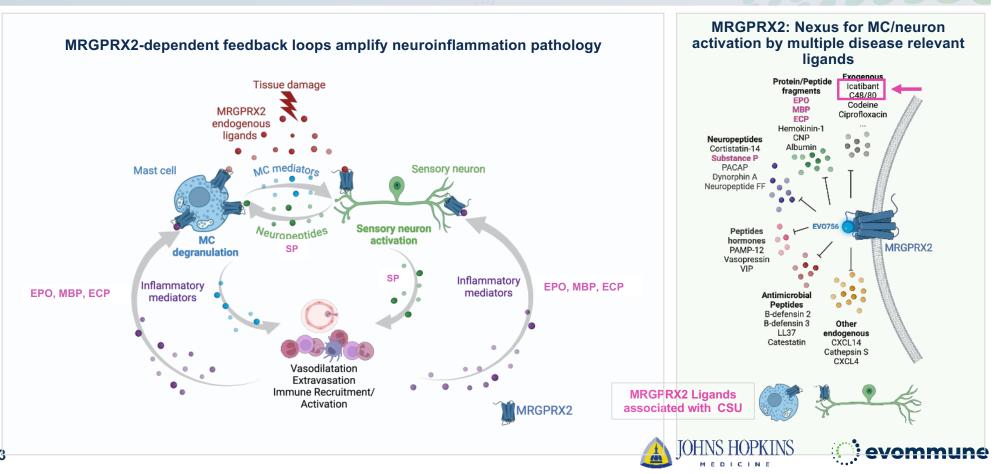


□ I have the following, real or perceived direct or indirect conflicts of interest that relate to this presentation:

| Type of affiliation / financial interest | Name of commercial company |
|--|---|
| Receipt of grants/research supports: | NIH, Novartis, Escient, Allakos, Jasper |
| Receipt of honoraria or consultation fees: | Allakos, Granular Therapeutics, Genetech, Celldex, Evommune, Novartis, Escient, Celltrion, Sanofi, Nucor, GSK |
| Participation in a company sponsored speaker's bureau: | None |
| Stock shareholder: | None |
| Other support (please specify): | Editor Up to Date |

MRGPRX2-dependent Mast Cell-Neuron interactions regulate multiple feedback mechanisms driving pathophysiological processes in CSU

Targeting MRGPRX2 may improve CSU signs and symptoms



MRGPRX2's Potential Role in CSU

Long recognized 48/80 skin reactivity increased in CSU patients

Bedard *JACI* 1986 Brunet *JACI* 1990 MRGPRX2 identified as receptor on skin MCs for 48/80 and other ligands

McNeil Nature 2014

Increased X2 expression noted in skin biopsies of CSU subjects

Fujisawa JACI 2014

Increased skin reactivity with X2 ligand testing (icatibant)

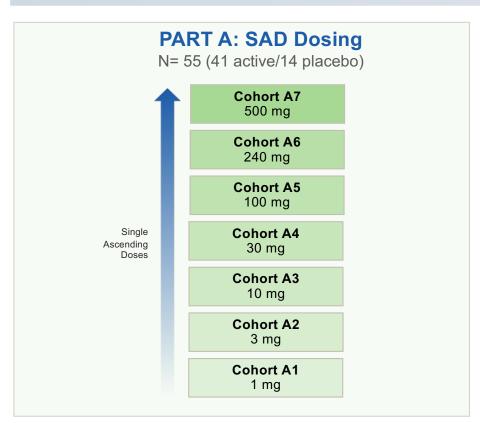
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EVO756 is an Oral MRGPRX2 Antagonist Targeted for CSU

Phase 1 Study Design: Single and Multiple Ascending Dose Cohorts with EVO756









Safety – Single Ascending Dose Cohorts

| | Placebo (Pooled) | Cohort A1 1 mg | Cohort A2 3 mg | Cohort A3 10 mg | Cohort A4 30 mg | Cohort A5 100 mg | Cohort A6 240 mg | Cohort A7 500 mg |
|---|---------------------|-------------------|-------------------|--------------------|--------------------|---------------------|---------------------|---------------------|
| n | 14 | 6 | 6 | 5 | 6 | 6 | 6 | 6 |
| Total Number of TEAEs | 8 | 2 | 1 | 2 | 3 | 3 | 3 | 3 |
| Total Number of Subjects Who Had at Least One TEAE | 6 (42.9%) | 2 (33.3%) | 1 (16.7%) | 2 (40%) | 2 (33.3%) | 2 (33.3%) | 1 (16.7%) | 2 (33.3%) |
| Events in More than 1 Subject | | | | | | | | |
| Headache | 3 (21.4%) | 2 (33.3%) | 0 | 0 | 1 (16.7%) | 1 (16.7%) | 0 | 2 (33.3%) |
| Dizziness | 1 (7.1%) | 0 | 0 | 0 | 0 | 0 | 1 (16.7%) | 0 |
| Catheter Site Pain | 0 | 0 | 0 | 0 | 1 (16.7%) | 1 (16.7%) | 0 | 0 |
| Diarrhea | 1 (7.1%) | 0 | 0 | 0 | 0 | 1 (16.7%) | 0 | 0 |
| Lymphadenpathy | 0 | 0 | 0 | 2 (40%) | 0 | 0 | 0 | 0 |





Safety - Multiple Ascending Dose Cohorts (14 days)

| | Placebo (Pooled) | Cohort B1 10 mg BID | Cohort B2 30 mg BID | Cohort B3 100 mg BID | Cohort B4 240 mg BID | Cohort B5 500 mg QD |
|---|---------------------|------------------------|------------------------|-------------------------|-------------------------|------------------------|
| n | 19 | 11 | 12 | 12 | 11 | 12 |
| Total Number of TEAEs | 13 | 8 | 4 | 14 | 10 | 10 |
| Total Number of Subjects Who Had at Least One TEAE | 8 (42.1%) | 4 (36.4%) | 4 (33.3%) | 5 (41.7%) | 2 (18.2%) | 5 (41.7%) |
| AEs in More than One Subject: | | | | | | |
| Headache | 1 (5.3%) | 0 | 1 (8.3%) | 1 (8.3%) | 1 (9.1%) | 4 (33.3%) |
| Dizziness | 0 | 1 (9.1%) | 0 | 0 | 1 (9.1%) | 0 |
| Somnolence | 0 | 0 | 0 | 2 (16.7%) | 0 | 0 |
| Catheter Site Pain | 1 (5.3%) | 0 | 1 (8.3%) | 1 (8.3%) | 0 | 0 |
| Catheter Site Bruise | 1 (5.3%) | 1 (9.1%) | 0 | 0 | 0 | 0 |
| Alopecia | 1 (5.3%) | 0 | 0 | 1 (8.3%) | 0 | 0 |
| Skin Irritation | 1 (5.3%) | 1 (9.1%) | 0 | 0 | 0 | 0 |
| Sore Throat | 1 (5.3%) | 0 | 0 | 0 | 0 | 1 (8.3%) |

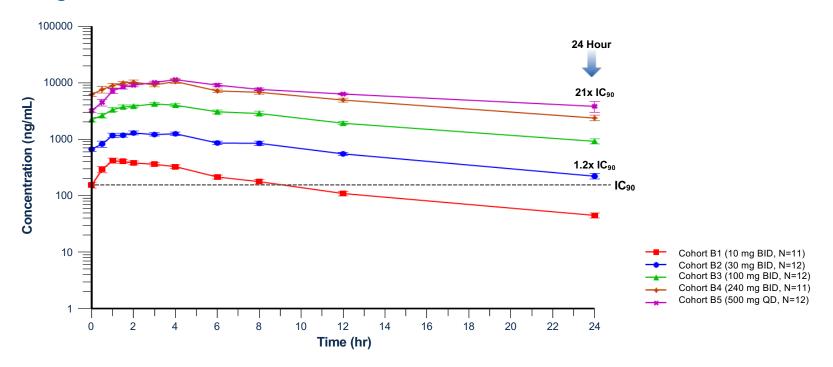




Multiple Dose Pharmacokinetics (14 Days)

Half-life of 8-12 hours supports once and twice daily dosing regimens

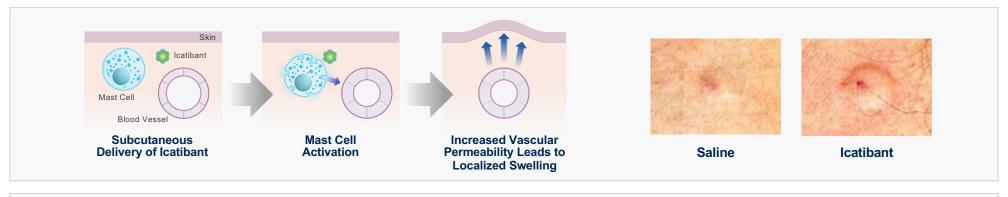
Log-Linear Plots of Mean EVO756 Plasma Concentrations vs Time

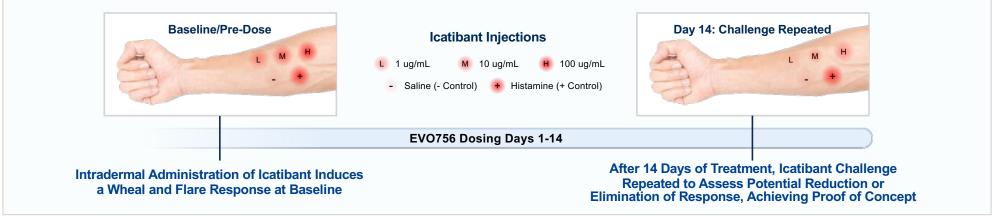






Proof of Concept & Target Engagement for Chronic Urticaria



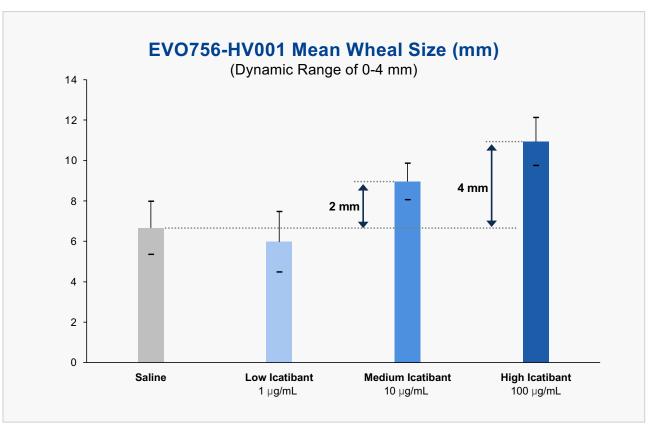






Icatibant Skin Challenge Assesses EVO756 Target Engagement

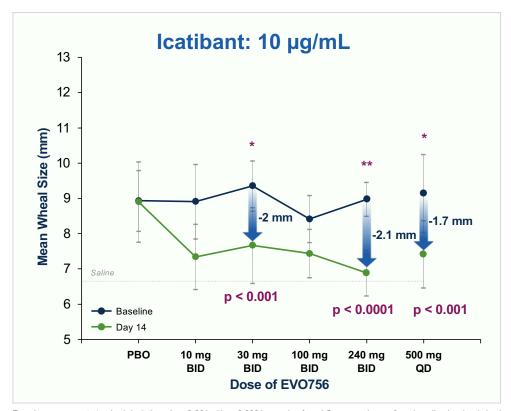
- In vitro pharmacology of lcatibant is comparable to that of all MRGPRX2 ligands tested
- Highly consistent and reproducible wheals formed with lcatibant at 10 and 100 µg/mL and with histamine control

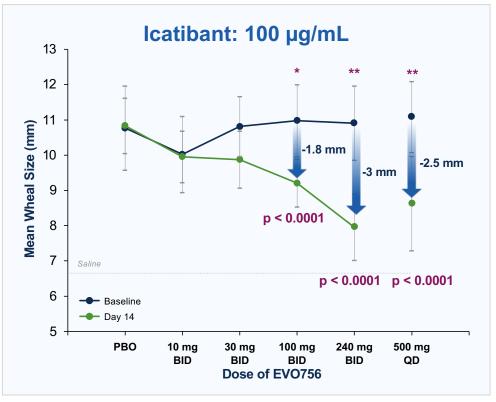






EVO756 Robustly Decreases Icatibant Wheal Size in a Dose-Dependent Manner





Error bars represent standard deviation; *p < 0.001; **p < 0.0001; p-value from LS-means change from baseline in wheal size in a Mixed Model Repeated Measures (MMRM) analysis. Bonferroni adjustment made for multiple comparisons – only comparisons which reached statistical significance of p<0.001 are noted.





EVO756 Phase 1 Data Support Advancement to Phase 2

- EVO756 is well tolerated across all doses
- Pharmacokinetics support once and twice daily dosing
- Clear target engagement
- Further evaluation in patients with active CSU and CIndU is warranted



