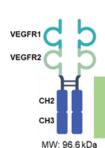
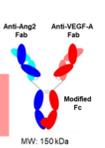
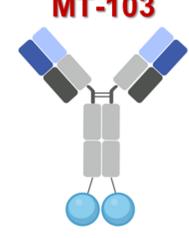
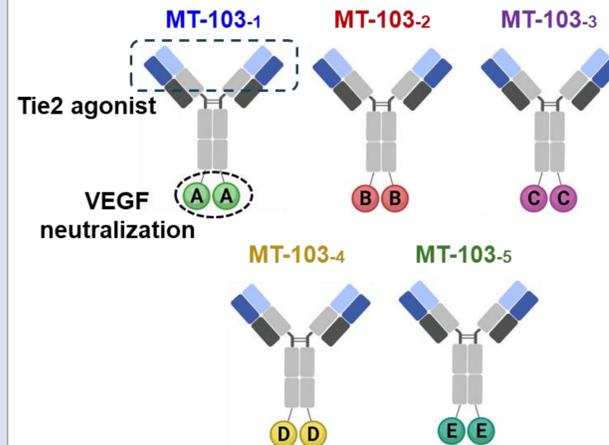


Development of a tri-functional bispecific antibody candidate activating Tie2 and inhibiting VEGF/Ang-2 for treating wet age-related macular degeneration (wAMD)

MabTics Co., Ltd.

<p>Disease area</p>	<p><i>Ophthalmology</i></p>																				
<p>Product Type</p>	<p>Bispecific antibody</p>																				
<p>Indication</p>	<p>Wet age-related macular degeneration (wAMD)</p>																				
<p>Target</p>	<p>Tie2 (TEK receptor tyrosine kinase) and VEGF</p>																				
<p>Mechanism of Action</p>	<ul style="list-style-type: none"> ◎ Tie2 & cascade signaling activation <ul style="list-style-type: none"> - Phosphorylation of Tie2 and eNOS/AKT/ERK ◎ Blockade of Ang-2 binding to Tie2 ◎ Neutralization of VEGF <ul style="list-style-type: none"> - Inhibition of VEGFR2 phosphorylation ◎ Anti-inflammation and anti-permeability activity <ul style="list-style-type: none"> - Inhibition of VEGF-induced NF-κB - Maintenance of endothelial adherent junction via VE-cadherin expression 																				
<p>Competitiveness</p>	<ul style="list-style-type: none"> ◎ Tri-functional activity <ul style="list-style-type: none"> - ① Tie2 activation, ② Inhibition of Ang-2 activity, ③ VEGF/VEGFR2 inhibition <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Single Action</p> <p>1st-Gen. : EYLEA</p> <p>1. VEGF/R inhibition</p> </div> <div style="text-align: center;"> <p>vs</p> </div> <div style="text-align: center;"> <p>Triple action</p> <p>3rd-Gen. : MT-103</p> <p>1. VEGF/R inhibition 2. Ang2 inhibition 3. Tie2 activation</p> </div> <div style="text-align: center;"> <p>vs</p> </div> <div style="text-align: center;"> <p>Double action</p> <p>2nd-Gen. : Vabysmo</p> <p>1. VEGF/R inhibition 2. Ang2 inhibition</p> </div> <div style="text-align: center;">  </div> </div> <div style="border: 1px solid blue; padding: 10px; margin-top: 10px;"> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <ul style="list-style-type: none"> • More effective & responsible in patients resistant to anti-VEGF therapies • Inhibits Ang2 binding to Tie2 • Normalizes & stabilizes pre-formed abnormal vessels </div> <div style="width: 10%; text-align: center;">  <p>MT-103</p> </div> <div style="width: 45%;"> <ul style="list-style-type: none"> • More effective in a certain pathological condition (Ang1^{low} / Ang2^{high}) • Directly activates Tie2 • Normalizes & stabilizes pre-formed abnormal vessels </div> </div> </div>																				
<p>Development Stage</p>	<p><i>Candidate</i></p>																				
<p>Route of Administration</p>	<p>Intravitreal</p>																				
<p>Key Data</p>	<div style="display: flex;"> <div style="flex: 1;">  </div> <div style="flex: 1;"> <p>Comparison between MT-103s and competitors' drugs</p> <ul style="list-style-type: none"> - MT-103 only activates Tie2 signaling and induces endothelial cell survival compared to Eylea and Vabysmo in a pathological condition - MT-103's functionality is better than a competitor's bispecific Ab <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Tested drugs</th> <th>① Tie2 & cascade signaling activation (Ang-1^{low}/VEGF^{high})</th> <th>② VEGF/VEGFR2 signaling inhibition</th> <th>③ Induction of endothelial cell survival</th> </tr> </thead> <tbody> <tr> <td>Eylea</td> <td style="text-align: center;">-</td> <td style="text-align: center;">●●●</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Vabysmo</td> <td style="text-align: center;">-</td> <td style="text-align: center;">●●</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Competitor A</td> <td style="text-align: center;">●●</td> <td style="text-align: center;">●●●</td> <td style="text-align: center;">●●</td> </tr> <tr> <td>MT-103-1/-4</td> <td style="text-align: center;">●●●</td> <td style="text-align: center;">●●●</td> <td style="text-align: center;">●●●</td> </tr> </tbody> </table> </div> </div>	Tested drugs	① Tie2 & cascade signaling activation (Ang-1 ^{low} /VEGF ^{high})	② VEGF/VEGFR2 signaling inhibition	③ Induction of endothelial cell survival	Eylea	-	●●●	-	Vabysmo	-	●●	-	Competitor A	●●	●●●	●●	MT-103-1/-4	●●●	●●●	●●●
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MT-103-1/-4	●●●	●●●	●●●																		
<p>IP</p>	<p>Will be submitted in 2024.Q2</p>																				