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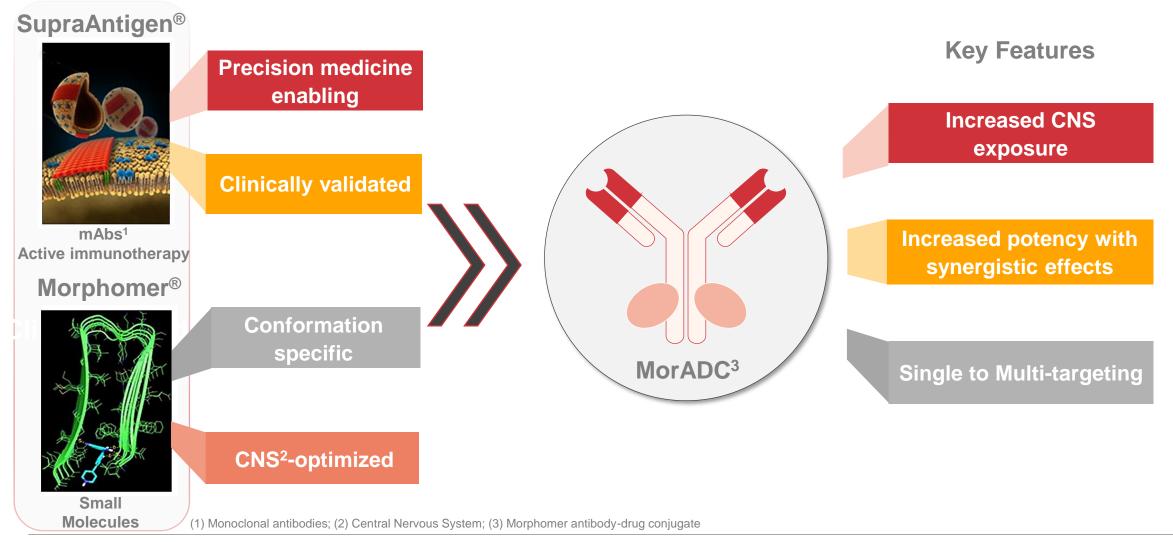
SupraAntigen® is a registered trademark of AC Immune SA in the following territories: AU, CH, EU, GB, JP, RU, SG and USA. Morphomer® is a registered trademark of AC Immune SA in CH, CN, GB, JP, KR, NO and RU.

#### Conflict of interest disclosure

Sreenivasachary Nampally is an employee of AC Immune SA entitled to stocks and stock options.

#### Synergistic combination of the SupraAntigen® and Morphomer® platforms

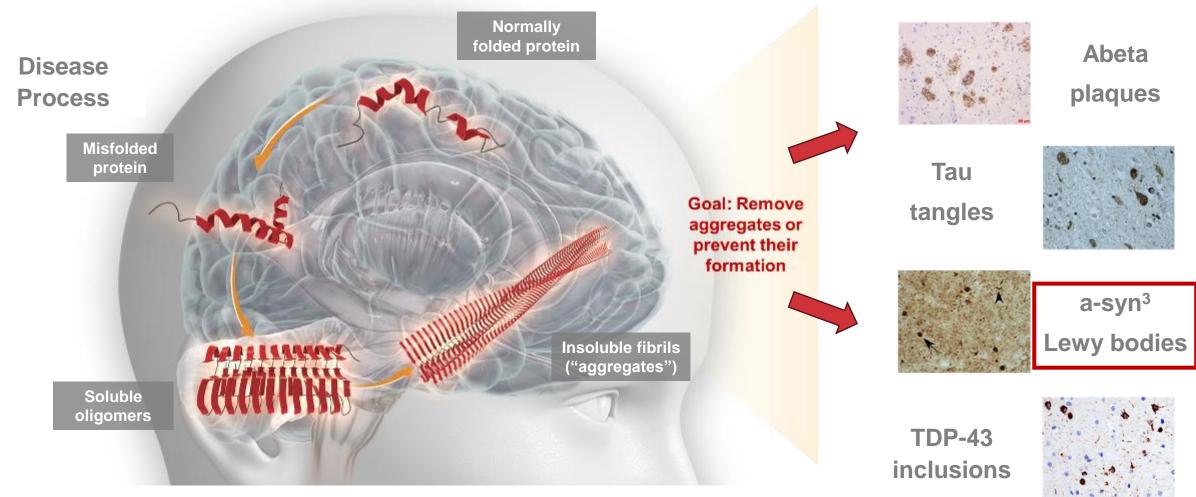
Combination of two clinically validated platforms to improve brain penetration and potency



# Nag et al. Acta Neuropathologica Communications 2018

#### Misfolded proteins: Leading targets in neurodegenerative diseases

Abeta, Tau, a-synuclein and TDP-43<sup>1</sup> drive pathology in NDD<sup>2</sup>



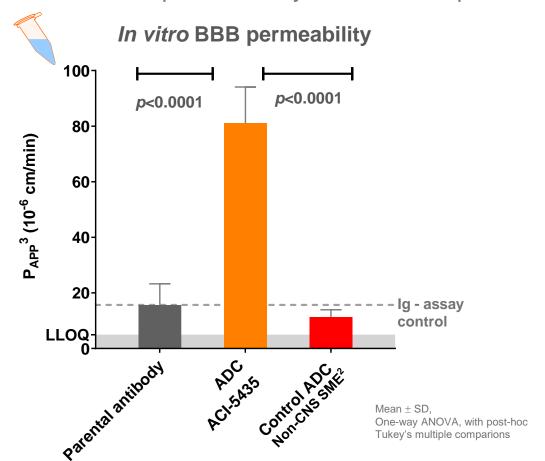
(1) TAR DNA-binding protein 43; (2) Neurodegenerative disease; (3) a-synuclein

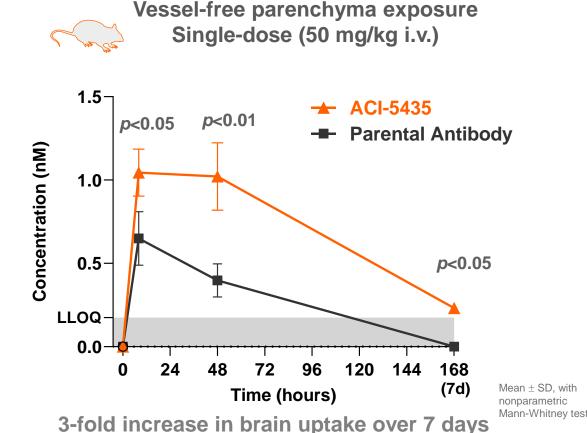
#### a-syn a-syn

#### MorADCs display increase brain penetration

ACI-5435

In vitro BBB¹ permeability and CNS exposure of MorADC ACI-5435





Conjugation of the antibody to a brain penetrant Morphomer significantly increases BBB permeability and CNS penetration

(1) Blood Brain Barrier; (2) Control ADC with non-brain-penetrant small molecule; (3) PAPP: Apparent permeability





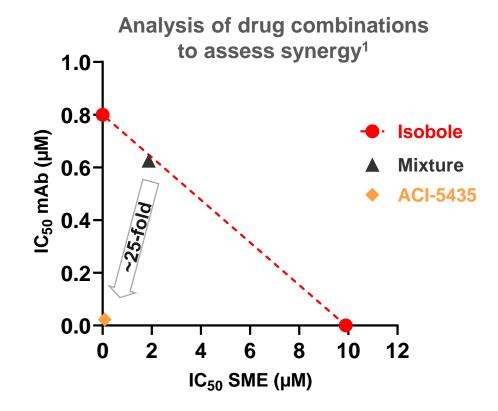
#### MorADCs display synergistically improved potency

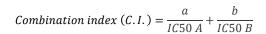
Inhibition of alpha-synuclein aggregation in vitro monitored by Thioflavin T

#### Inhibition of aggregation



Inhibition of a-syn aggregation (IC <sub>50</sub> )			
Parental Antibody	Parental Morphomer	Mixture of parental drugs (1:3 ratio)	morADC ACI-5435-1
800 nM	9926 nM	2528 nM	103 nM





- ACI-5435 is 25-fold more potent than the mixture of the two parental entities
- These data reveal the synergistic effect of the mAb and SME when combined in one therapeutic molecule

(1) Chou TC. Drug combination studies and their synergy quantification using the Chou–Talalay method. Cancer Res 2010



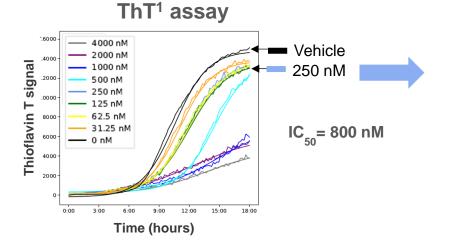
#### a-syn a-syn

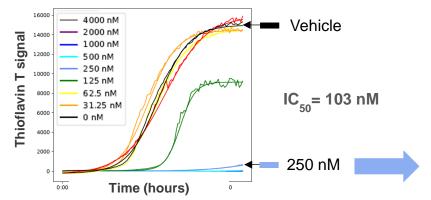
#### MorADCs are more potent inhibitors in vitro

a-syn aggregation monitored by beta-sheet and filament structures

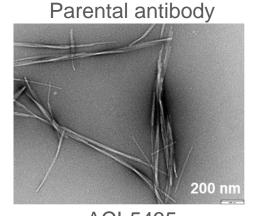


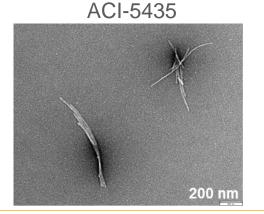
### Parental Antibody

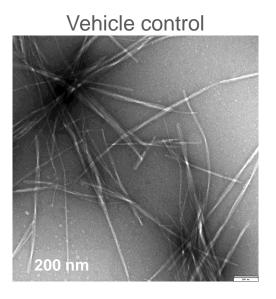




#### Filament formation<sup>2</sup>







 MorADCs are highly potent as able to completely inhibit a-syn aggregation formation confirming the synergism when combined as one therapeutic molecule

(1) Thioflavin T; (2) images generated by electron microscopy



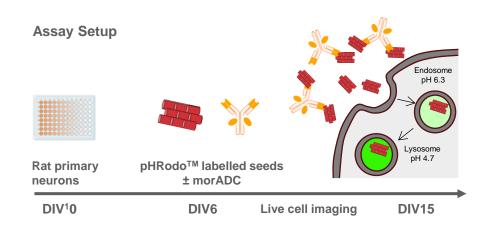
**ACI-5435** 

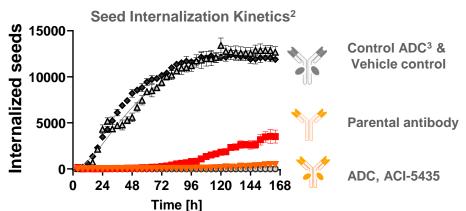
## AC Immune unpublished data

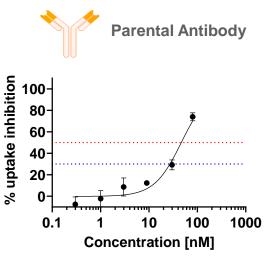
#### MorADCs inhibit a-syn seed internalization into neurons

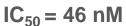
Kinetics of seed uptake in neurons

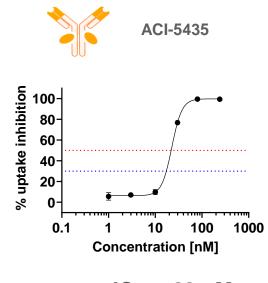












$$IC_{50} = 23 \text{ nM}$$

MorADCs have higher potency than parental antibody at reducing a-syn seed uptake

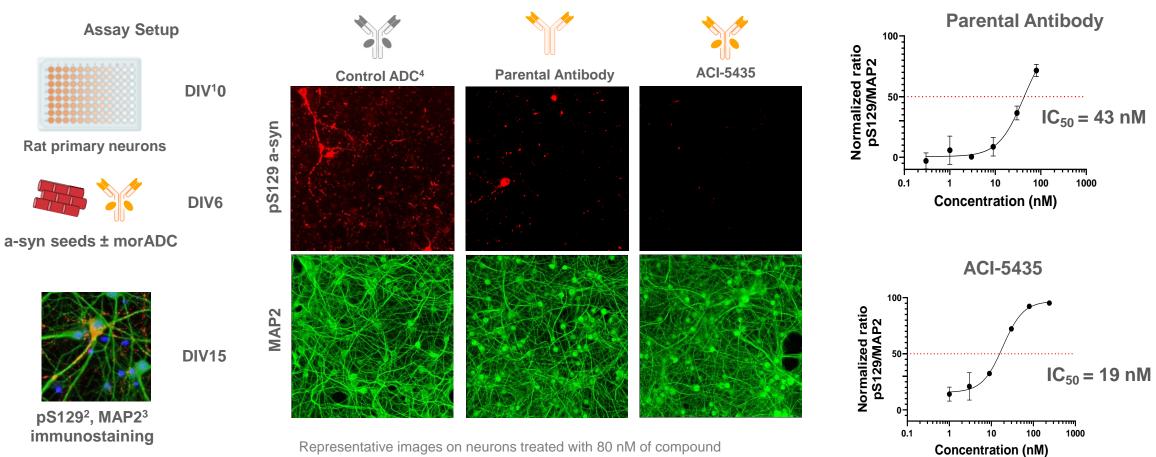
(1) Days in vitro; (2) Test articles used at 80nM; (3) Non-a-syn binding antibody conjugated to non-a-syn binding small molecule

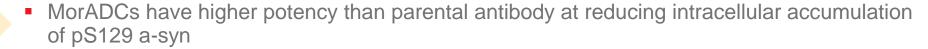


#### MorADCs inhibit intracellular pS129 a-syn accumulation



Treatment effects on de novo aggregates formed at endpoint





(1) Days in vitro; (2) pS129 a-syn; (3) Microtubule Associated Protein 2; (4) Non-a-syn binding antibody conjugated to non-a-syn binding small molecule



#### Key take away messages

MorADCs: a game changing opportunity for NDD¹ therapies

First-in-class



 A groundbreaking platform that integrates two clinically validated approaches into a single therapeutic molecule

**Brain exposure** 



CNS exposure improved for morADCs compared to the parental mAbs

**Synergy** 



The morADCs synergistically inhibit pathological a-syn aggregation

Therapeutic potential



 MorADCs represent an innovative therapeutic approach with a broad application potential for the treatment of NDDs

(1) Neurodegenerative diseases

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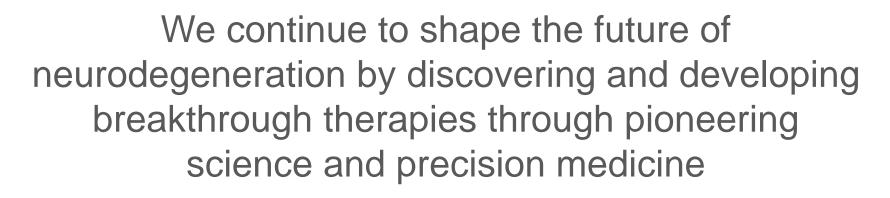
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