

Clinical development and global collaboration of NS101: A novel monoclonal antibody therapeutic for sensorineural hearing loss through synaptic restoration



Disease Area	Neurological disease (Neuro-otology)
Product Type	Monoclonal Antibody (anti-FAM19A5 antibody, functioning synapse restoration)
Indication	Sudden Sensorineural Hearing Loss (SSNHL)
Target	FAM19A5 (functioning synapse elimination)
Mechanism of Action	Functional recovery by synapse restoration via anti-FAM19A5 antibody
Competitiveness	<div>✓ <b>First-in-class MOA with extensibility potential:</b> versatile diseases (i.e. sensorineural diseases, neurodegenerative diseases, neurological diseases &amp; neuronal disabilities) can be treated if related with accumulated synaptopathy</div> <div>✓ <b>Therapeutic potential:</b> The amino acid sequence of FAM19A5 is 100% identical across vertebrates, including humans → well conserved, very important protein thru evolution</div> <div>✓ <b>Safety potential by disinhibiting MOA:</b> not more than normal</div>
Development Stage	Clinical Trial Phase 1b/2a
Route of Administration	Intravenous

Key Data

