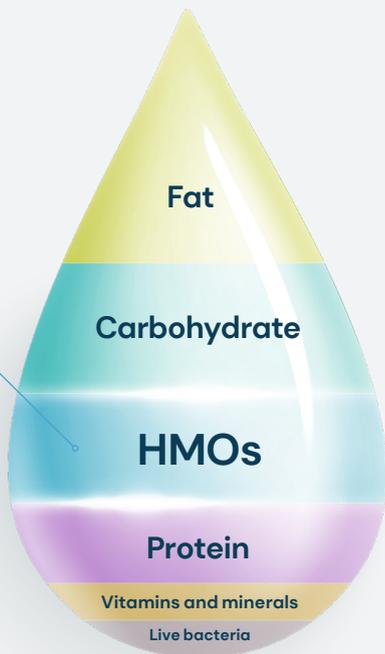


# Human Milk Oligosaccharides: a key component of human milk

Human milk is the gold standard in infant nutrition. It is a complex and diverse matrix of nutrients.

HMOs are the 3rd largest component found in human milk, with over 200 structures identified<sup>1</sup>



Human milk oligosaccharides (HMOs) work in synergy to support the immune system and the brain through the gut



Modulates immune cells<sup>2-3</sup>



Protecting effect against pathogens<sup>4-6</sup>



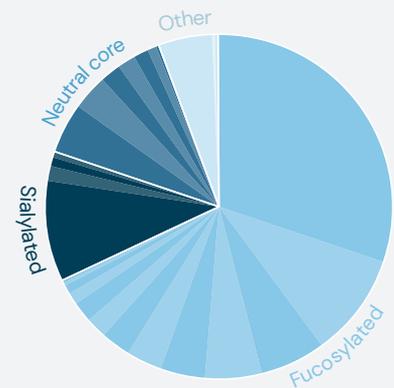
Prebiotic effect<sup>7-9</sup>  
Stimulate growth and activity of beneficial bacteria



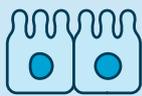
Supports brain development<sup>10-12</sup>

Most HMOs are classified into **3 classes**<sup>1</sup> defined by the nature of their structure.

There is a **growing body of evidence**, including clinical data, to support the use of **HMOs from the 3 major classes** and the role of **combinations with 5 HMOs** in supporting healthy infant development and growth<sup>9</sup>.



Supplementation with 5 different HMOs is clinically shown<sup>9</sup> to promote early gut development in infants supporting:



A healthy gut barrier function



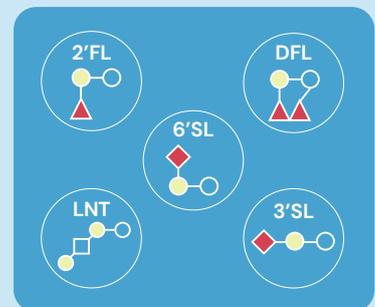
Gut maturation and development



The intestinal immune system



The gut microbiome



1. Jantscher-Krenn & Bode 2012 2. Goehring 2016 3. Alliet 2022, 4. Marriage 2015 5. Reverri 2016 6. Vanderplas 2022 7. Puccio 2016 8. Berger 2020 9. Bosheva 2022 10. Jacobi 2016 11. Hauser 2021 12. Wang 2019

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