Press Release



Update on the US regulatory review of tolebrutinib in nonrelapsing, secondary progressive multiple sclerosis

Paris, September 22, 2025. The US Food and Drug Administration (FDA) has extended by three months the target action date of its review of the new drug application (NDA) of tolebrutinib, an oral and brain-penetrant investigational Bruton's tyrosine kinase (BTK) inhibitor to treat non-relapsing, secondary progressive multiple sclerosis (nrSPMS) and to slow disability accumulation independent of relapse activity in adult patients.

Based on the submission of additional analyses during the review, the FDA has determined that the additional information constituted a major amendment to the NDA and extended the target action date accordingly. The revised target action date for the FDA decision is December 28, 2025.

Sanofi is confident in the potential positive impact tolebrutinib can provide and will continue to collaborate closely with the FDA during the review period.

Tolebrutinib was the first brain-penetrant BTK inhibitor in nrSPMS to be designated as a breakthrough therapy by the FDA.

The FDA review of tolebrutinib is based on pivotal data from the global, double-blinded randomized <u>HERCULES and GEMINI 1 and 2</u> phase 3 studies evaluating the efficacy and safety of tolebrutinib in patients with nrSPMS and relapsing MS (RMS), respectively.

The safety and efficacy of tolebrutinib have not been established by the FDA, and it remains under review by regulatory authorities worldwide, including in the EU. In addition to the completed HERCULES and GEMINI 1 and 2 studies, the PERSEUS phase 3 study in primary progressive MS is ongoing with study results anticipated in H2 2025.

About multiple sclerosis

Multiple sclerosis is a chronic, immune-mediated neurodegenerative disease of the central nervous system (CNS) that may result in accumulation of irreversible disabilities over time. The physical and cognitive disability impairments translate into gradual deterioration of health status, impacting patients' care and quality of life. Disability accumulation remains a significant unmet medical need in MS. Currently, the primary target of currently approved medicines has been peripheral B and T cells, while innate immunity within the CNS which is believed to drive disability accumulation remains largely unaddressed.

People living with nrSPMS refers to people with MS who have stopped experiencing relapses but continue to accumulate disability, experienced as symptoms such as fatigue, cognitive impairment, balance and gait impairment, loss of bowel and/or bladder function, sexual dysfunction, amongst others.

About HERCULES

HERCULES (clinical study identifier: NCT04411641) was a double-blinded, randomized phase 3 clinical study evaluating the efficacy and safety of tolebrutinib in patients with nrSPMS. At baseline, nrSPMS was defined as having a SPMS diagnosis with an expanded disability status scale (EDSS) between 3.0 and 6.5, no clinical relapses for the previous 24 months and documented evidence of disability accumulation in the previous 12 months. Participants were randomized (2:1) to receive either an oral daily dose of tolebrutinib or matching placebo for up to approximately 48 months.

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The primary endpoint was six-month confirmed disability progression (CDP) defined as the increase of ≥ 1.0 point from the baseline EDSS score when the baseline score is ≤ 5.0 , or the increase of ≥ 0.5 point when the baseline EDSS score was > 5.0. Secondary endpoints included time to onset of three-month CDP as assessed by EDSS score, total number of new or enlarging T2 hyperintense lesions as detected by MRI, time to onset of confirmed disability improvement, 3-month change in 9-hole peg test and timed 25-foot walk (T25-FW) test, as well as the safety and tolerability of tolebrutinib.

About GEMINI 1 and 2

GEMINI 1 (clinical study identifier: NCT04410978) and GEMINI 2 (clinical study identifier: NCT04410991) were double-blinded, randomized phase 3 clinical studies evaluating the efficacy and safety of tolebrutinib compared to teriflunomide, an oral disease modifying medicine, in patients with RMS. Participants were randomized in both studies (1:1) to receive either tolebrutinib and placebo daily or 14 mg teriflunomide and placebo.

The primary endpoint for both studies was the annualized relapse rate for up to approximately 36 months defined as the number of confirmed adjudicated protocol defined relapses. Secondary endpoints included time to onset of confirmed disease worsening, confirmed over at least six months, defined as an increase of ≥ 1.5 points from the baseline EDSS score when the baseline score is 0, an increase of ≥ 1.0 point from the baseline EDSS score when the baseline score is 0.5 to ≤ 5.5 or an increase of ≥ 0.5 point from the baseline EDSS score when the baseline score was > 5.5 in addition to the total number of new and/or enlarging T2 hyperintense lesions as detected by MRI from baseline through the end of study, the total number of Gd-enhancing T1 hyperintense lesions as detected by MRI from baseline through the end of study, and the safety and tolerability of tolebrutinib.

About tolebrutinib

Tolebrutinib is an oral, brain-penetrant Bruton's tyrosine kinase inhibitor specifically designed to target smoldering neuroinflammation, a key driver of disability progression in MS. This mechanism addresses the underlying pathology of progressive MS by targeting the inflammatory processes that contribute to neurodegeneration and disability accumulation.

Tolebrutinib represents Sanofi's commitment to developing innovative treatments that address the underlying causes of neurological diseases and potentially transform the treatment landscape. Standing at the intersection of neurology and immunoscience, Sanofi is focused on improving the lives of those living with serious neuro-inflammatory and neuro-degenerative conditions including MS, chronic inflammatory demyelinating polyneuropathy, Alzheimer's disease, Parkinson's disease, age-related macular degeneration, and other neurological diseases. The neurology pipeline currently has several projects in phase 3 studies across various diseases.

About Sanofi

Sanofi is an R&D driven, AI-powered biopharma company committed to improving people's lives and delivering compelling growth. We apply our deep understanding of the immune system to invent medicines and vaccines that treat and protect millions of people around the world, with an innovative pipeline that could benefit millions more. Our team is guided by one purpose: we chase the miracles of science to improve people's lives; this inspires us to drive progress and deliver positive impact for our people and the communities we serve, by addressing the most urgent healthcare, environmental, and societal challenges of our time.

Sanofi is listed on EURONEXT: SAN and NASDAQ: SNY

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