RNS Number: 0166F AstraZeneca PLC 28 October 2025

28 October 2025

# Koselugo approved in the EU for plexiform neurofibromas in adults with neurofibromatosis type 1

# Approval based on KOMET Phase III trial results which showed 20% objective response rate in tumour size reduction

Alexion, AstraZeneca Rare Disease's Koselugo (selumetinib), an oral, selective MEK inhibitor, has been approved in the European Union (EU) for the treatment of symptomatic, inoperable plexiform neurofibromas (PN) in adult patients with neurofibromatosis type 1 (NF1).

The approval by the European Commission follows the <u>positive opinion</u> of the Committee for Medicinal Products for Human Use (CHMP) and is based on results from KOMET, the largest and only placebo-controlled global Phase III trial in this patient population, which were presented at the 2025 American Society of Clinical Oncology (ASCO) Annual Meeting and published in <u>The Lancet.</u><sup>2</sup>

NF1 is a rare, progressive, genetic condition usually diagnosed in early childhood, but often progressing into adulthood, that can impact every organ system. $^{3,4}$  Up to 50% of people living with NF1 may develop a type of non-malignant tumour called PN that may affect the brain, spinal cord and nerves. $^{4,5}$  PN may appear later in a person's life and can grow and become large, leading to pain, disfigurement and muscle weakness, among other debilitating symptoms. $^{4,5}$ 

Prof. Pierre Wolkenstein, MD, PhD, Head of the Department of Dermatology at Henri Mondor Hospital, APHP, Paris East University (UPEC), and National Coordinating Investigator of the KOMET trial in Europe, said: "The approval of Koselugo for adults with NF1 PN in Europe offers patients and physicians a meaningful approach to close treatment gaps beyond childhood. As demonstrated in the KOMET Phase III trial, the most robust late-stage clinical trial conducted in this patient group to-date, adults administered Koselugo saw significant tumour volume reduction with a safety profile consistent with its established use in paediatric patients, validating the clinical benefits of Koselugo for newly diagnosed adults and those transitioning to adult care."

Marc Dunoyer, Chief Executive Officer, Alexion, said: "The European Commission approval extends the life-changing potential of *Koselugo* to adults with NF1 PN in the region, including continuity of care into adulthood. This milestone, along with our pioneering leadership in NF1 PN treatment landscape, embodies Alexion's unwavering commitment to addressing the unmet needs in the rare disease community. We look forward to bringing *Koselugo* to those adults in need across Europe as soon as possible."

In the primary analysis of the trial, *Koselugo* showed a statistically significant objective response rate (ORR) of 20% (n=14/71, 95% Cl: 11.2, 30.9) compared to 5% with placebo (n=4/74, 95% Cl: 1.5, 13.3; p=0.01) by cycle 16. After 12 cycles, patients on placebo were switched to *Koselugo* and patients on *Koselugo* remained on treatment for an additional 12 cycles.<sup>2</sup>

The safety profile of Koselugo in the KOMET Phase III trial was consistent with its known profile and established use in paediatric patients.<sup>2</sup>

Koselugo has been recently approved in Japan and other countries for the treatment of adult patients with NF1 who have symptomatic, inoperable PN based on data from the KOMET Phase III trial, and additional regulatory reviews are ongoing.

# <u>Notes</u>

## NF1

NF1 is a rare, progressive, genetic condition that is caused by a spontaneous or inherited mutation in the NF1 gene.<sup>3,4</sup> NF1 is associated with a variety of symptoms, including soft lumps on and under the skin (cutaneous neurofibromas) and, in up to 50% of patients, tumours called plexiform neurofibromas (PN) may develop on the nerve sheaths.<sup>4,5</sup> These PN can cause clinical issues such as disfigurement, motor dysfunction, pain, airway dysfunction, visual impairment and bladder or bowel dysfunction.<sup>4,5</sup>

# **KOMET**

KOMET is a global Phase III randomised, double-blind, placebo-controlled, multicentre trial designed to evaluate the efficacy and safety of *Koselugo* in adults with NF1 who have symptomatic, inoperable PN. The trial enrolled 145 adults from 13 countries across North America, South America, Europe, Asia and Australia, with participants' baseline characteristics, including gender and distribution of PN, reflective of the global adult NF1 patient population. Patients were enrolled and randomised to receive *Koselugo* or placebo (1:1) for 12 28-day cycles. Participants were required to have diagnosis of NF1, at least one symptomatic, inoperable PN measurable by volumetric MRI analysis, chronic PN pain score documented during screening, adequate organ and marrow function and stable chronic PN pain medication use at enrolment.<sup>2,6</sup>

The primary endpoint is confirmed objective response rate (ORR) by cycle 16 as assessed by ICR. ORR is defined as the percentage of patients with confirmed complete response (disappearance of PNs) or partial response (at least 20% reduction in tumour volume). Secondary endpoints include improved PN-related pain and health-related quality of life (HRQoL) at cycle 12.<sup>2,6</sup>

After 12 cycles, patients on placebo were switched to *Koselugo* and patients on *Koselugo* remained on treatment for an additional 12 cycles. Patients who had the opportunity to complete 24 cycles of treatment have the option to participate in a long-term extension period and continue to receive *Koselugo*.<sup>2,6</sup>

Koselugo

Koselugo (selumetinib) is a kinase inhibitor that blocks specific enzymes (MEK1 and MEK2), which are involved in stimulating cells to grow. In NF1, these enzymes are overactive, causing tumour cells to grow in an unregulated way creating so-called plexiform neurofibromas (PN). By blocking these enzymes, Koselugo slows down the growth of tumour cells and, therefore, the PN growth.

Koselugo is approved in the US, EU, Japan, China and other countries for the treatment of certain paediatric patients with NF1 who have symptomatic, inoperable PN.

Koselugo is approved in the EU, Japan and other countries for the treatment of adult patients with NF1 who have symptomatic, inoperable PN, and additional regulatory reviews are ongoing.

Koselugo has been granted Orphan Drug Designation in the US, EU, Japan and other countries for the treatment of

AstraZeneca and MSD Strategic Collaboration
In July 2017, AstraZeneca and Merck & Co., Inc., Rahway, NJ, US, known as MSD outside the US and Canada, announced a global strategic collaboration to co-develop and co-commercialise *Lynparza* (olaparib), a first-in-class PARP inhibitor, and *Koselugo*. The companies may develop *Lynparza* and *Koselugo* in combination with other potential new medicines and as monotherapies.

#### **Alexion**

Alexion, AstraZeneca Rare Disease, is focused on serving patients and families affected by rare diseases and devastating conditions through the discovery, development and delivery of life-changing medicines. A pioneering leader in rare disease for more than three decades, Alexion was the first to translate the complex biology of the complement system into transformative medicines, and today it continues to build a diversified pipeline across disease areas with significant unmet need, using an array of innovative modalities. As part of AstraZeneca, Alexion is continually expanding its global decorrangic footprint to sense more rare disease natients around the world. It is continually expanding its global geographic footprint to serve more rare disease patients around the world. It is headquartered in Boston, US.

### **AstraZeneca**

AstraZeneca (LSE/STO/Nasdaq: AZN) is a global, science-led biopharmaceutical company that focuses on the discovery, development, and commercialisation of prescription medicines in Oncology, Rare Diseases, and BioPharmaceuticals, including Cardiovascular, Renal & Metabolism, and Respiratory & Immunology. Based in Cambridge, UK, AstraZeneca's innovative medicines are sold in more than 125 countries and used by millions of patients worldwide. Please visit <a href="mailto:astrazeneca.com">astrazeneca.com</a> and follow the Company on Social Media <a href="mailto:astrazeneca.com">@Astrazeneca</a>.

For details on how to contact the Investor Relations Team, please click here. For Media contacts, click here.

### References

- Koselugo (selumetinib) SmPC; October 2025.
  Chen, AP, et al. KOMET: a phase 3, multicentre, international, randomised, placebo-controlled study to assess the efficacy and safety of selumetinib in adults with neurofibromatosis type 1 and symptomatic, inoperable plexiform neurofibromas. The Lancet. 2025;405(10496):2217-2230.
  Tamura R. Current understanding of neurofibromatosis type 1, 2, and schwannomatosis. Int J Mol Sci.

- artura R. Current understanding of neurolibromatosis type 1, 2, and scriwalinomatosis. *Int 3 Not Sci.* 2021;22(11):5850.

  Hirbe AC, et al. Neurofibromatosis type 1: a multidisciplinary approach to care. *Lancet Neurol.* 2014;13:834-843.

  Bergqvist C, et al. Neurofibromatosis 1 French national guidelines based on an extensive literature review since 1966. *Orphanet J Rare Dis.* 2020;15(1):37.

  Clinical Trials.gov. Efficacy and safety of selumetinib in adults with NF1 who have symptomatic, inoperable plexiform neurofibromas (KOMET). NCT Identifier: NCT04924608. Available <a href="here">here</a>. Accessed October 2025.

Matthew Bowden Company Secretary AstraZeneca PLC

This information is provided by RNS, the news service of the London Stock Exchange. RNS is approved by the Financial Conduct Authority to act as a Primary Information Provider in the United Kingdom. Terms and conditions relating to the use and distribution of this information may apply. For further information, please contact ms@lseg.com or visit www.ms.com.

RNS may use your IP address to confirm compliance with the terms and conditions, to analyse how you engage with the information contained in this communication, and to share such analysis on an anonymised basis with others as part of our commercial services. For further information about how RNS and the London Stock Exchange use the personal data you provide us, please see our Privacy Policy.

**END** 

REABCBDGUSDDGUR