

# Report KIMMTRAK® tebentafusp

Product & Mechanism of action	Authorized indications Licensing status	Essential therapeutic features	NHS impact
<p><b>Substance:</b>tebentafusp</p> <p><b>Brand Name:</b>Kimtrak</p> <p><b>Originator/licensee:</b>Immunocore Ireland Limited</p> <p><b>Classification:</b> NCE</p> <p><b>ATC code:</b> L01</p> <p><b>OrphanStatus:</b> Eu: Yes Us: Yes</p> <p><b>Mechanism of action:</b> Tebentafusp is an antineoplastic agent with bispecific affinity, targeting the CD3 T cells and a gp100 peptide on the surface of uveal melanoma tumour cells. This redirects and activates T cells and results in direct lysis of uveal melanoma tumour cells [1].</p>	<p><b>Authorized Indication:</b> <b>EMA:</b> tebentafusp is indicated as monotherapy for the treatment of HLA-A*02:01 positive adult pts with unresectable or metastatic uveal melanoma [1]. <b>FDA:</b> tebentafusp is a bispecific gp100 peptide-HLA-directed CD3 T cell engager indicated for the treatment of HLA-A*02:01-positive adult pts with unresectable or metastatic uveal melanoma [2].</p> <p><b>Route of administration:</b> IV</p> <p><b>Licensing status</b> <b>EU CHMP P.O. date:</b> 24/02/2022 <b>FDA M.A. date:</b> 25/01/2022</p> <p><b>EU Speed Approval Pathway:</b> No <b>FDA Speed Approval Pathway:</b> No -----</p> <p><b>ABBREVIATIONS:</b> <b>AEs:</b> Adverse events <b>CHMP:</b> Committee for Medicinal Product for Human Use <b>CI:</b> Confidence Interval <b>HLA:</b> human leukocyte antigen <b>HR:</b> Hazard Ratio <b>IFN:</b> Interferon <b>MA:</b> Marketing Authorization <b>OS:</b> Overall Survival <b>PO:</b> Positive Opinion <b>PI:</b> Principal Investigator <b>Pts:</b> patients <b>TRAEs:</b> treatment-related adverse events <b>vs.:</b> versus</p>	<p><b>Summary of clinical EFFICACY:</b> <b>IMCgp100-202 (NCT03070392):</b> open-label, phase III trial where previously untreated HLA-A*02:01-positive adult pts (n=378) with metastatic uveal melanoma were randomized in a 2:1 ratio to receive tebentafusp (n=252) or the PI choice of therapy (n=126) with single-agent pembrolizumab, ipilimumab, or dacarbazine (control group) for three weeks. - Pts received IV tebentafusp at a dose of 20 µg on day 1, 30 µg on day 8 and 68 µg weekly thereafter; - Pembrolizumab was administered intravenously at a dose of 2 mg/kg to a maximum of 200 mg per dose or at a fixed dose of 200 mg on day 1 of each 21-day cycle; - Ipilimumab was administered intravenously at a dose of 3 mg/kg on day 1 of each 21-day cycle for a maximum of four doses; - Dacarbazine was administered intravenously at a dose of 1,000 mg per square meter of body-surface area on day 1 of each 21-day cycle. The primary endpoint was OS. The estimated OS at one year was 73% (95% CI, 66 to 79) in the tebentafusp group and 59% (95% CI, 48 to 67) in the control group (HR for death, 0.51; 95% CI, 0.37 to 0.71; p&lt;0.001). The estimated median duration of OS was 21.7 months (95% CI, 18.6 to 28.6) with tebentafusp and 16.0 months (95% CI, 9.7 to 18.4) with the control drug, respectively [3].</p> <p><b>Summary of clinical SAFETY:</b> Any-grade TRAEs occurred in 99% of pts in the tebentafusp arm vs. 91% in the control group. The most common any-grade TRAEs were cytokine-related AEs, such as pyrexia (76% vs. 3%), chills (47% vs. 3%), and hypotension (38% vs. 0%), and skin-related AEs, such as rash (83% vs. 24%), pruritus (69% vs. 21%), and erythema (23% vs. 1%). Treatment-related AEs of grade 3 or 4 were reported in 109 pts (44%) in the tebentafusp group and in 19 pts (17%) in the control group. No treatment-related deaths were reported in either group [3].</p> <p><b>Ongoing studies:</b> ● <b>For the same indication:</b>No ● <b>For other indications:</b>Yes</p> <p><b>Discontinued studies (for the same indication):</b>No</p> <p><b>References:</b> 1. <a href="https://www.ema.europa.eu/en/documents/smop-initial/chmp-summary-opinion-kimmtrak_en.pdf">https://www.ema.europa.eu/en/documents/smop-initial/chmp-summary-opinion-kimmtrak_en.pdf</a> 2. <a href="https://www.accessdata.fda.gov/drugsatfda_docs/label/2022/761228s000lbl.pdf">https://www.accessdata.fda.gov/drugsatfda_docs/label/2022/761228s000lbl.pdf</a> 3. <a href="https://pubmed.ncbi.nlm.nih.gov/34551229/">https://pubmed.ncbi.nlm.nih.gov/34551229/</a> 4. <a href="https://www.aiom.it/wp-content/uploads/2020/10/2020_LG_AIOM_Melanoma.pdf">https://www.aiom.it/wp-content/uploads/2020/10/2020_LG_AIOM_Melanoma.pdf</a> 5. <a href="https://ichgcp.net/it/clinical-trials-registry/NCT02626962">https://ichgcp.net/it/clinical-trials-registry/NCT02626962</a> 6. <a href="https://jncn.org/view/journals/jncn/16/5S/article-p646.xml">https://jncn.org/view/journals/jncn/16/5S/article-p646.xml</a> 7. <a href="https://adisinsight.springer.com/drugs/800033036">https://adisinsight.springer.com/drugs/800033036</a> 8. <a href="https://clinicaltrials.gov/ct2/results?cond=Metastatic+Uveal+Melanoma&amp;term=&amp;type=Intr&amp;rslt=&amp;recrs=b&amp;recrs=a&amp;recrs=f&amp;recrs=d&amp;recrs=e&amp;age_v=&amp;gndr=&amp;intr=&amp;titles=&amp;outc=&amp;spons=&amp;lead=&amp;id=&amp;cntry=&amp;state=&amp;city=&amp;dist=&amp;locn=&amp;phase=1&amp;phase=2&amp;rsub=&amp;strd_s=&amp;strd_e=&amp;prcd_s=&amp;prcd_e=&amp;sfpd_s=&amp;sfpd_e=&amp;rfpd_s=&amp;rfpd_e=&amp;lupd_s=&amp;lupd_e=&amp;sort=">https://clinicaltrials.gov/ct2/results?cond=Metastatic+Uveal+Melanoma&amp;term=&amp;type=Intr&amp;rslt=&amp;recrs=b&amp;recrs=a&amp;recrs=f&amp;recrs=d&amp;recrs=e&amp;age_v=&amp;gndr=&amp;intr=&amp;titles=&amp;outc=&amp;spons=&amp;lead=&amp;id=&amp;cntry=&amp;state=&amp;city=&amp;dist=&amp;locn=&amp;phase=1&amp;phase=2&amp;rsub=&amp;strd_s=&amp;strd_e=&amp;prcd_s=&amp;prcd_e=&amp;sfpd_s=&amp;sfpd_e=&amp;rfpd_s=&amp;rfpd_e=&amp;lupd_s=&amp;lupd_e=&amp;sort=</a></p>	<p><b>Cost of therapy:</b> Not yet available.</p> <p><b>Epidemiology:</b> In Italy, uveal melanoma has an incidence of about 0.7 per 100,000 person-years among females and 0.5 among males [4]. Metastases in uveal melanoma appear in 6.5-35% of pts during the first decade [5].</p> <p><b>POSSIBLE PLACE IN THERAPY</b> For distant metastasis, no single systemic therapy has proven to be effective for uveal melanoma. If approved, tebentafusp would be the first major pharmacological treatment [6].</p> <p><b>OTHER INDICATIONS IN DEVELOPMENT:</b> Yes (Malignant melanoma) [7].</p> <p><b>SAME INDICATION IN EARLIER LINE(S) OF TREATMENT:-</b></p> <p><b>OTHER DRUGS IN DEVELOPMENT for the SAME INDICATION:</b> Yes (Nivolumab + Relatlimab, Binimetinib + Belinostat, Defactinib Hydrochloride + Raf/MEK Inhibitor VS-6766) [8].</p> <p>*Service reorganization Y/N: Yes *Possible off label use Y/N: Yes</p>