



Merck Pipeline

Q1 2024 Reflecting Pipeline to
February 23, 2024

Lead-in language

The chart below reflects the company's research pipeline as of **February 23, 2024**. Candidates shown in Phase 3 include specific products and the date such candidate entered into Phase 3 development. Candidates shown in Phase 2 include the most advanced compound with a specific mechanism or, if listed compounds have the same mechanism, they are each currently intended for commercialization in a given therapeutic area. Small molecules and biologics are given MK-number designations and vaccine candidates are given V-number designations. Except as otherwise noted, candidates in Phase 1, additional indications in the same therapeutic area (other than with respect to cancer and certain other indications) and additional claims, line extensions or formulations for in-line products are not shown.

1. Being developed in a collaboration.
2. Being developed in combination with Keytruda
3. Being developed as monotherapy and/or in combination with Keytruda

Merck pipeline as of February 23, 2024 ▶

▶ Moved forward since last pipeline update.

Phase 2	Phase 2	Phase 2	Phase 2	Phase 2
Cancer NSCLC quavonlimab MK-1308 ²	Cancer CRC quavonlimab + pembrolizumab MK-1308A	Thrombosis MK-2060	Heme zilovertamab vedotin MK-2140	Cancer SCLC ifinatumab deruxtecán MK-2400 ¹
Cancer Neoplasm Malignant MK-2870 ^{1,3}	Cancer Advanced solid tumors Prostate KEYTRUDA® MK-3475	Cancer Cutaneous Squamous Cell pembrolizumab + hyaluronidase subcutaneous MK-3475A	Cancer NSCLC favezelimab MK-4280 ²	Cancer Bladder Cutaneous Squamous Cell Endometrial Esophageal Melanoma RCC favezelimab + pembrolizumab MK-4280A
Pulmonary Arterial Hypertension MK-5475	▶ Cancer Neoplasm Malignant boserolimab MK-5890 ²	NASH efinopegdutide MK-6024	▶ Systemic Lupus Erythematosus MK-6194	▶ Cancer Endometrial Esophageal HCC Prostate Rare cancers WELIREG™ MK-6482 ³

Merck pipeline as of February 23, 2024

1. Being developed in a collaboration.
2. Being developed in combination with Keytruda
3. Being developed as monotherapy and/or in combination with Keytruda
4. On FDA clinical hold
5. On partial clinical hold for higher doses than those used in current clinical trials
6. Phase 2b development costs are being co-funded

▶ Moved forward since last pipeline update.

Phase 2	Phase 2	Phase 2	Phase 2	Phase 2
<p>Cancer Advanced solid tumors LYNPARZA® MK-7339^{1,3}</p>	<p>Cancer Biliary Bladder Breast Cervical CRC Endometrial Esophageal Gastric HNSCC HCC Ovarian Prostate vibostolimab + pembrolizumab MK-7684A</p>	<p>Cancer HNSCC LENVIMA® MK-7902^{1,2}</p>	<p>Pulmonary Hypertension due to Left Heart Disease sotatercept MK-7962</p>	<p>Schizophrenia MK-8189⁶</p>
<p>▶ HIV-1 prevention MK-8527</p>	<p>HIV-1 Infection islatravir+MK-8507 MK-8591B⁴</p>	<p>HIV-1 Infection islatravir+lenacapavir MK-8591D^{1,5}</p>	<p>Dengue fever virus Vaccine V181</p>	

Merck pipeline as of February 23, 2024

1. Being developed in a collaboration.
 2. Being developed in combination with Keytruda
 3. Being developed as monotherapy and/or in combination with Keytruda
 4. On partial clinical hold for higher doses than those used in current clinical trials
 5. Available in the U.S. under Emergency Use Authorization
- ▶ Moved forward since last pipeline update.

Phase 3	Phase 3	Phase 3	Phase 3
Hypercholesterolemia MK-0616	Cancer NSCLC patritumab deruxtecan MK-1022¹ (EU)	Cancer Heme nemtabrutinib MK-1026	Cancer RCC quavonlimab + pembrolizumab MK-1308A
Respiratory syncytial virus clesrovimab MK-1654	▶ Cancer Endometrial NSCLC MK-2870^{1,3}	Cancer Cutaneous Squamous Cell Carcinoma (EU) Hepatocellular (EU) Mesothelioma Ovarian SCLC KEYTRUDA® MK-3475	Cancer NSCLC pembrolizumab + hyaluronidase subcutaneous MK-3475A
▶ Cancer Myeloproliferative Disorders bomedemstat MK-3543	Cancer CRC Heme favezelimab + pembrolizumab MK-4280A	Anti-Viral COVID-19 molnupiravir MK-4482^{1,5} (US)	▶ Cancer Prostate MK-5684¹
Ulcerative Colitis tulisokibart MK-7240	Cancer NSCLC SCLC LYNPARZA® MK-7339^{1,2}	Cancer Melanoma NSCLC SCLC vibostolimab + pembrolizumab MK-7684A	Cancer Esophageal Gastric LENVIMA® MK-7902^{1,2}
HIV-1 infection doravirine + islatravir MK-8591A⁴	Pneumococcal Vaccine Adult V116 (EU)	▶ Cancer Melanoma NSCLC V940^{1,2}	

1. Being developed in a collaboration
 2. In Dec 2023, FDA issued a CLR for the NDA for gefapixant. Merck is reviewing the feedback to determine next steps.
- ▶ Moved forward since last pipeline update.

Merck pipeline as of February 23, 2024

New Molecular Entities Under Review	New Molecular Entities Under Review	Certain Supplemental Filings Under Review	Certain Supplemental Filings Under Review	Certain Supplemental Filings Under Review
▶ Previously Treated Locally Advanced or Metastatic EGFR-Mutated NSCLC (HERTHENA-Lung01) patritumab deruxtecan MK-1022¹ (US)	▶ von Hippel-Lindau (VHL) disease (LIGHTSPARK-004) WELIREG® MK-6482 (EU)	1L Locally Advanced Unresectable or Metastatic Biliary Tract Cancer (KN966) KEYTRUDA® MK-3475 (JPN)	▶ Primary Advanced or Recurrent Endometrial Carcinoma (KN868) KEYTRUDA® MK-3475 (US)	1L HER2 negative Locally Advanced Unresectable or Metastatic Gastric Cancer (KN859) KEYTRUDA® MK-3475 (JPN)
Cough gefapixant MK-7264 (US²)	▶ Pulmonary Arterial Hypertension (STELLAR) sotatercept MK-7962 (US, EU)	Resectable Stage II, IIIA or IIIB NSCLC (KN671) KEYTRUDA® MK-3475 (EU, JPN)	▶ 1L Locally Advanced or Metastatic Urothelial Cancer (KNA39) KEYTRUDA® MK-3475 (EU, JPN)	▶ High-Risk Locally Advanced Cervical Cancer (KNA18) KEYTRUDA® MK-3475 (EU)
▶ Pneumococcal Vaccine Adult V116 (US)		▶ Previously Treated Advanced Renal Cell Carcinoma (LIGHTSPARK-005) WELIREG® MK-6482 (EU)		

1. Approvals obtained within the last 3 months.
 2. Being developed in a collaboration
- ▶ Moved forward since last pipeline update.

Merck pipeline as of February 23, 2024

Certain Supplemental Approvals ¹	Certain Supplemental Approvals ¹	Certain Supplemental Approvals ¹
▶ FIGO 2014 Stage III-IVA Cervical Cancer (KNA18) KEYTRUDA® MK-3475 (US)	▶ 1L Locally Advanced Unresectable or Metastatic Biliary Tract Cancer (KN966) KEYTRUDA® MK-3475 (EU, CHN)	▶ 1L HER2 negative Locally Advanced Unresectable or Metastatic Gastric Cancer (KN859) KEYTRUDA® MK-3475 (US, EU, CHN)
▶ 2L Hepatocellular Cancer secondary to hepatitis B (KN394) KEYTRUDA® MK-3475 (US)	▶ 1L Locally Advanced or Metastatic Urothelial Cancer (KNA39) KEYTRUDA® MK-3475 (US)	▶ Previously Treated Advanced Renal Cell Carcinoma (LIGHTSPARK-005) WELIREG® MK-6482 (US)
▶ Prophylaxis of CMV in kidney transplant patients PREVYMIS™ MK-8228 (EU)		

Forward-looking statement

This presentation of Merck & Co., Inc., Rahway, N.J., USA (the “company”) includes “forward-looking statements” within the meaning of the safe harbor provisions of the U.S. Private Securities Litigation Reform Act of 1995. These statements are based upon the current beliefs and expectations of the company’s management and are subject to significant risks and uncertainties. There can be no guarantees with respect to pipeline candidates that the candidates will receive the necessary regulatory approvals or that they will prove to be commercially successful. If underlying assumptions prove inaccurate or risks or uncertainties materialize, actual results may differ materially from those set forth in the forward-looking statements.

Risks and uncertainties include but are not limited to, general industry conditions and competition; general economic factors, including interest rate and currency exchange rate fluctuations; the impact of pharmaceutical industry regulation and health care legislation in the United States and internationally; global trends toward health care cost containment; technological advances, new products and patents attained by competitors; challenges inherent in new product development, including obtaining regulatory approval; the company’s ability to accurately predict future market conditions; manufacturing difficulties or delays; financial instability of international economies and sovereign risk; dependence on the effectiveness of the company’s patents and other protections for innovative products; and the exposure to litigation, including patent litigation, and/or regulatory actions.

The company undertakes no obligation to publicly update any forward-looking statement, whether as a result of new information, future events or otherwise. Additional factors that could cause results to differ materially from those described in the forward-looking statements can be found in the company’s Annual Report on Form 10-K for the year ended December 31, 2023 and the company’s other filings with the Securities and Exchange Commission (SEC) available at the SEC’s Internet site (www.sec.gov).

No duty to update

The information contained in the presentation set forth below was current as of February 23, 2024. While this presentation remains on the company's website the company assumes no duty to update the information to reflect subsequent developments. Consequently, the company will not update the information contained in the presentation and investors should not rely upon the information as current or accurate after February 23, 2024.

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