



MSD Pipeline

Q1 2024 Reflecting Pipeline to
Feb 21, 2025

Lead-in language

The chart below reflects the company's research pipeline as of **Feb 21, 2025**. 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, immunology and certain other indications) and additional claims, line extensions or formulations for in-line products are not shown.

MSD pipeline as of Feb 21, 2025

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

▶ Moved forward since last pipeline update.

Phase 2	Phase 2	Phase 2	Phase 2	Phase 2
<p>▶</p> <p>Cancer Biliary Bladder Cervical CRC Endometrial Esophageal Gastric HCC HNSCC Melanoma Ovarian Pancreas Prostate patritumab deruxtecan MK-1022¹</p>	<p>▶</p> <p>Alzheimer's MK-1167</p>	<p>Cancer NSCLC quavonlimab MK-1308²</p>	<p>Cancer CRC quavonlimab + pembrolizumab MK-1308A</p>	<p>▶</p> <p>Cancer Biliary Bladder Breast Cervical CRC Endometrial Esophageal HCC HNSCC Melanoma Ovarian Pancreas ifinatamab deruxtecan MK-2400¹</p>
<p>Cancer Biliary CRC Neoplasm Malignant Pancreatic sacituzumab tirumotecan MK-2870^{1,3}</p>	<p>Cancer Advanced Solid Tumors Prostate KEYTRUDA[®] MK-3475</p>	<p>Cancer Cutaneous Squamous Cell Heme pembrolizumab + hyaluronidase subcutaneous MK-3475A</p>	<p>PH-COPD MK-5475</p>	<p>Cancer Neoplasm Malignant boserolimab MK-5890²</p>

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Phase 2	Phase 2	Phase 2	Phase 2	Phase 2
▶ Cancer Bladder Cervical Endometrial Ovarian Renal raludotatug deruxtecán MK-5909 ¹	MASH efinopegdutide MK-6024	Lupus Vitiligo MK-6194	▶ Cancer Breast Endometrial Esophageal HCC WELIREG™ MK-6482 ³	Systemic Sclerosis tulisokibart MK-7240
Cancer Advanced solid tumors LYNPARZA® MK-7339 ^{1,3}	Pulmonary Hypertension due to Left Heart Disease WINREVAIR™ MK-7962	HIV-1 PrEP MK-8527	HIV-1 Infection islatravir+MK-8507 MK-8591B ⁴	Dengue Fever Virus Vaccine V181
Cancer Bladder RCC V940 ^{1,2}				

MSD pipeline as of Feb 21, 2025

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 of islatravir than those used in current clinical trials
5. Available in the U.S. under Emergency Use Authorization
6. Program is in a Phase 2/3 study

▶ Moved forward since last pipeline update.

Phase 3	Phase 3	Phase 3	Phase 3	Phase 3
Hypercholesterolemia enlicitide decanoate MK-0616	Cancer NSCLC patritumab deruxtecan MK-1022¹ (EU)	Cancer Heme nemtabutininib MK-1026	Cancer NSCLC MK-1084²	Cancer RCC quavonlimab + pembrolizumab MK-1308A
Cancer Heme zilovertamab vedotin MK-2140	Cancer SCLC ifinatumab deruxtecan MK-2400¹	Cancer Breast Cervical Endometrial Gastric NSCLC sacituzumab tirumotecan MK-2870^{1,3}	Diabetic Macular Edema MK-3000⁶	Cancer Hepatocellular (EU) Ovarian SCLC KEYTRUDA® MK-3475
Cancer NSCLC pembrolizumab + hyaluronidase subcutaneous MK-3475A	Cancer Myeloproliferative Disorders bomedemstat MK-3543	Anti-Viral COVID-19 LAGEVRIO® MK-4482^{1,5} (US)	Cancer Prostate opevesostat MK-5684	Crohn's Disease Ulcerative Colitis tulisokibart MK-7240
Cancer NSCLC SCLC LYNPARZA® MK-7339^{1,2}	Cancer Esophageal LENVIMA® MK-7902^{1,2}	HIV-1 Infection doravirine + islatravir MK-8591A⁴	HIV-1 Infection islatravir+lenacapavir MK-8591D^{1,4}	Cancer Melanoma NSCLC V940^{1,2}

MSD pipeline as of Feb 21, 2025

1. Being developed in a collaboration
2. In June 2024, FDA issued a CRL for the BLA for patritumab deruxtecan. MSD is working with Daiichi Sankyo to address FDA feedback.

▶ Moved forward since last pipeline update.

New Molecular Entities Under Review	New Molecular Entities Under Review	New Molecular Entities Under Review	Certain Supplemental Filings Under Review
<p>Previously Treated Locally Advanced or Metastatic EGFR-Mutated NSCLC (HERTHENA-Lung01) patritumab deruxtecan MK-1022^{1,2} (US)</p>	<p>▶ Respiratory Syncytial Virus clesrovimab MK-1654 (US, EU)</p>	<p>von Hippel-Lindau (VHL) Disease (LITESPARK-004) Previously Treated Advanced Renal Cell Carcinoma (LITESPARK-005) WELIREG® MK-6482 (JPN)</p>	<p>1L Unresectable Advanced or Metastatic Malignant Pleural Mesothelioma (KN483) KEYTRUDA® MK-3475 (EU, JPN)</p>
<p>▶ Pulmonary Arterial Hypertension (STELLAR) WINREVAIR™ MK-7962 (JPN)</p>	<p>Pneumococcal Vaccine Adult CAPVAXIVE™ V116 (EU, JPN)</p>		<p>Advanced, Unresectable, or Metastatic Pheochromocytoma and Paraganglioma (PPGL) (LITESPARK-015) WELIREG® MK-6482 (US)</p>

MSD pipeline as of Feb 21, 2025

1. Approvals obtained within the last 3 months.

▶ Moved forward since last pipeline update.

New Molecular Entities Approvals ¹	Certain Supplemental Approvals ¹	Certain Supplemental Approvals ¹	Certain Supplemental Approvals ¹
<p>▶ von Hippel-Lindau (VHL) Disease-Associated Tumors (LITESPARK-004) WELIREG® MK-6482 (EU, CHN)</p>	<p>▶ High-Risk Locally Advanced Cervical Cancer (KNA18) KEYTRUDA® MK-3475 (JPN, CHN)</p>	<p>▶ Primary Advanced or Recurrent Endometrial Carcinoma (KN868) KEYTRUDA® MK-3475 (JPN)</p>	<p>▶ Resectable Stage II, IIIA or IIIB NSCLC (KN671) KEYTRUDA® MK-3475 (CHN)</p>
<p>▶ HABP/VABP cUTI/cIAI RECARBRIO™ relebactam+ imipenem/cilastatin MK-7655A (CHN)</p>	<p>▶ 1L Locally Advanced or Metastatic Urothelial Cancer (KNA39) KEYTRUDA® MK-3475 (CHN)</p>	<p>▶ Previously Treated Advanced Renal Cell Carcinoma (LITESPARK-005) WELIREG® MK-6482 (EU)</p>	<p>▶ gBRCA-Mutated HER2 Negative Adjuvant Breast Cancer (OlympiA) LYNPARZA® MK-7339 (CHN)</p>
	<p>▶ HPV Vaccine 2-Dose Girls GARDASIL® V501 (CHN)</p>	<p>▶ HPV Vaccine HPV 9-26 yo Males GARDASIL® V501 (CHN)</p>	

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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.

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No duty to update

The information contained in the presentation set forth below was current as of Feb 21, 2025. 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 Feb 21, 2025.

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