

Common class and types of chemotherapeutic drugs

The following table lists examples of common chemotherapy drugs by their classification and type.

Class	Type	Examples
alkylating drugs	nitrogen mustards	<ul style="list-style-type: none"> • mechlorethamine (nitrogen mustard, Mustargen) • melphalan (Alkeran, L-PAM) • chlorambucil (Leukeran) • cyclophosphamide (Cytosan, Procytox) • ifosfamide (Ifex) • estramustine (Emcyt)
	alkyl sulphonates	<ul style="list-style-type: none"> • busulfan (Myleran [oral], Busulfex [intravenous])
	Hydrazines and Triazines	<ul style="list-style-type: none"> • dacarbazine (DTIC) • temozolomide (Temodal) • Procarbazine (Matulane) • Altretamine (Hexalen)
	nitrosoureas	<ul style="list-style-type: none"> • carmustine (BiCNU, BCNU) • lomustine (CeeNU, CCNU) • streptozocin (Zanosar)
	metal salts	<ul style="list-style-type: none"> • cisplatin (Platinol AQ, Platinol) • carboplatin (Paraplatin, Paraplatin AQ) • oxaliplatin (Eloxatin)
	ethylenimine derivatives	<ul style="list-style-type: none"> • thiotepa (ThioTEPA)
antimetabolites	antifolates	<ul style="list-style-type: none"> • methotrexate • raltitrexed (Tomudex) • pemetrexed (Alimta)
	purine analogues	<ul style="list-style-type: none"> • cladribine (Leustatin) • fludarabine (Fludara) • mercaptopurine (Purinethol, 6-MP) • thioguanine (Lanvis, 6-TG) • Pentostatin (Nipent)
	pyrimidine analogues	<ul style="list-style-type: none"> • azactidine (Vidaza) • capecitabine (Xeloda) • cytarabine (Cytosar, Ara-C) • 5-fluorouracil (Acrucil, 5-FU, Efudex [topical]) • gemcitabine (Gemzar)
natural products	antibiotics (anthracyclines)	<ul style="list-style-type: none"> • bleomycin (Blenoxane) • dactinomycin (Cosmegen, actinomycin-D) • daunorubicin (Cerubidine, daunomycin) • doxorubicin (Adriamycin) • epirubicin (Pharmorubicin) • Plicamycin (Mithramycin) • idarubicin (Idamycin)

		<ul style="list-style-type: none"> • mitomycin (Mutamycin) • mitoxantrone (Novantrone) • liposomal daunorubicin (DaunoXome) • liposomal doxorubicin (Myocet) • pegylated liposomal doxorubicin (Caelyx)
	enzymes	<ul style="list-style-type: none"> • asparaginase (Kidrolase)
	Plant alkaloids has taxanes group	<ul style="list-style-type: none"> • docetaxel (Taxotere) • paclitaxel (Taxol)
	Plant alkaloids act as mitotic inhibitors	<ul style="list-style-type: none"> • vinblastine (Velbe) • vincristine (Oncovin) • vinorelbine (Navelbine) • vindesine (Eldesine)
	Plant alkaloids act as topoisomerase I inhibitors	<ul style="list-style-type: none"> • irinotecan (Camptosar) • topotecan (Hycamtin)
	Plant alkaloids act as topoisomerase II inhibitors	<ul style="list-style-type: none"> • etoposide (Vepesid, VP-16) • teniposide (Vumon, VM-26)
Hormonal agents		<ul style="list-style-type: none"> • Tamoxifen (Nolvadex) • Flutamide (Eulexin) • Gonadotropin-Releasing Hormone Agonists (Leuprolide and Goserelin (Zoladex) • Aromatase Inhibitors anastrozole (Arimidex), exemestane (Aromasin) and letrozole (Femara). Aminoglutethimide (Cytadren)
Monoclonal Antibodies	Naked monoclonal antibodies	<ul style="list-style-type: none"> • alemtuzumab (Campath®) • trastuzumab (Herceptin®)
	Conjugated monoclonal antibodies	<ul style="list-style-type: none"> • Ibritumomab tiuxetan (Zevalin®) • Brentuximab vedotin (Adcetris®) • Ado-trastuzumab emtansine (Kadcyla®)
	Bispecific monoclonal antibodies	<ul style="list-style-type: none"> • blinatumomab (Blincyto)
miscellaneous	substituted urea	<ul style="list-style-type: none"> • hydroxyurea (Hydrea)
	somatostatin analogues	<ul style="list-style-type: none"> • octreotide (Sandostatin, Sandostatin LAR)
	adrenocortical suppressants	<ul style="list-style-type: none"> • mitotane (Lysodren)
	salts	<ul style="list-style-type: none"> • arsenic trioxide
	photosensitizing agents	<ul style="list-style-type: none"> • pofimer sodium (Photofrin)