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# Copper Cu 62 Ethylglyoxal Bis(thiosemicarbazone)

National Cancer Institute

## Source

National Cancer Institute. *Copper Cu 62 Ethylglyoxal Bis(thiosemicarbazone)*. NCI Thesaurus. Code C105611.

A radiopharmaceutical composed of the nonspecific perfusion agent ethylglyoxal bis(thiosemicarbazone) (ETS) linked to the beta-emitting, radioisotope copper Cu 62, with potential tumor imaging activity upon positron emitting tomography (PET). Upon injection, copper Cu 62-ETS distributes to various organs, especially the kidneys and the myocardium. Upon PET imaging, tumor blood flow can be visualized and the efficacy of antineoplastic and anti-angiogenic chemotherapeutics can be assessed. Cu62-ETS has a short half life of 9.74 minutes. ETS has an enhanced hyperemic response compared to other perfusion agents.