

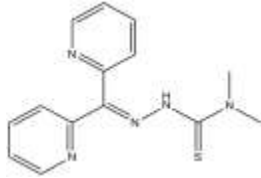
PRODUCT: Iron chelator, Dp44MT

ALTERNATE NAME: 2-(Di-2-pyridinylmethylene)-N,N-dimethylhydrazinecarbothioamide, Di-2-pyridylketone-4,4,-dimethyl-3-thiosemicarbazone

CATALOG #: 9634-5, 25

AMOUNT: 5 mg, 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₄H₁₅N₅S

MOLECULAR WEIGHT: 285.37

CAS#: 152095-12-0

APPEARANCE: Yellow to orange solid

SOLUBILITY: DMSO (>5 mg/ml)

PURITY: ≥98%

STORAGE: Store at -20°C. Protect from air and light

DESCRIPTION: Dp44MT is a cell-permeable iron chelator. This di-2-pyridyl thiosemicarbazone (DpT) based tridentate ligand displays potent and selective antiproliferative properties in neoplastic cells and minimally affects normal cells. Dp44mT prevents aggressive growth of M109 lung carcinoma in mice and has been shown to mobilize cellular iron effectively, and generate ROS leading to apoptosis.

REFERENCE: Myers, C.R. (2015). *Free Radic. Biol. Med.* **91**, 81-92.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Iron Colorimetric Assay Kit (**K390-100**)
 Deferoxamine mesylate (**1883-500, 1000**)
 Ferrostatin-1 (**2230-5,25**)
 Iron Chelator, Dp44MT (**9634-5,25**)

USAGE: **FOR RESEARCH USE ONLY! Not to be used in humans!**