

Catalogue Number	Product	Order number / Unit
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**1455 ATSM**  
**Complexation agent for [\*Cu]-Labelling**

**1455.0010: 10 mg per vial**  
**Please inquire for customized filling and bulk quantities.**

**Molar Mass:** 260.39

$C_8H_{16}N_6S_2$

[63618-91-7]

Colourless to yellowish solid packaged in dark glass screw cap vials.

**Purity:** > 95 %

**Certificates:**

CoA;  $^1H$  NMR spectrum

**Chemical Name:**

CA index name: Hydrazinecarbothioamide, 2,2'-(1,2-dimethyl-1,2-ethanediylidene) bis[N-methyl-

**Synonymes:**

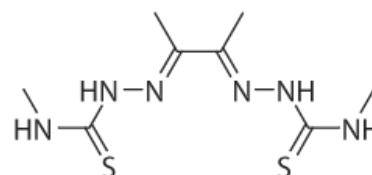
$H_2$ ATSM; Diacetyl bis(N4-methylthiosemicarbazone); 2,3-Butanedione bis(4-methylthiosemicarbazone); ATSM (ligand)

**Literature:**

Szajek L.P. et al. Semi-remote production of  $[^{64}Cu]CuCl_2$  and preparation of high specific activity  $[^{64}Cu]$  Cu-ATSM for PET studies. *Radiochim. Acta* 2005, 93, 239-244.

Fujibayashi Y. et al. Copper-62-ATSM: A new Hypoxia Imaging Agent with high Membrane Permeability and Low Redox Potential *J. Nucl. Med.* 1997, 38, 1150-1160.

Green M.A. et al. Copper-62-Labeled Pyruvaldehyde Bis(N4-methylthiosemicarbazone)copper(II): Synthesis and Evaluation as a Positron Emission Tomography Tracer for Cerebral and Myocardial Perfusion *J. Nucl. Med.* 1990, 31, 1989-1996.



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