



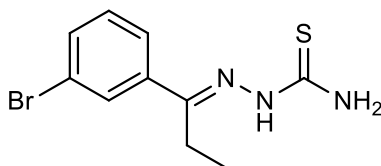
Catalog # 10-1433

Bromo-PTC

CAS#443144-54-5

3'-Bromopropiophenone thiosemicarbazone

Lot # S101031



Cruzain is the major cysteine protease of *Trypanosoma cruzi*, the protozoan parasite responsible for American trypanosomiasis or Chagas' disease. Cruzain is essential for the replication of the parasite and thus is a new target for antitrypanosomal chemotherapy. Bromo-PTC is a potent inhibitor of cruzain ($IC_{50} = 100$ nM) which exhibits trypanocidal activity in cultured host cells without toxicity¹.

- 1) Xiaohui *et al.* (2002), *Synthesis and structure-activity relationship study of potent trypanocidal thio semicarbazone inhibitors of the trypanosomal cysteine protease cruzain*; J. Med. Chem., **45** 2695

PHYSICAL DATA

Molecular Weight:	286.20
Molecular Formula:	C ₁₀ H ₁₂ BrN ₃ S
Purity:	99% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 40 mg/ml) or Ethanol (up to 10 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 1 month.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462
www.focusbiomolecules.com