

Product Name: PU 23

Catalog No.: 6885

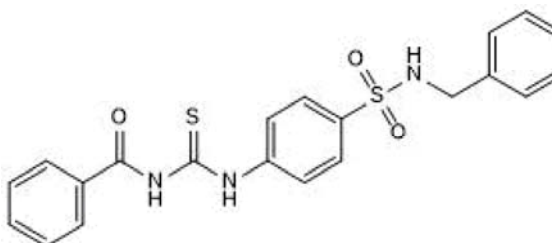
Batch No.: 1

CAS Number: 817635-93-1

IUPAC Name: *N*-[[[4-[[[(Phenylmethyl)amino]sulfonyl]phenyl]amino]thioxomethyl]benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₁₉N₃O₃S₂
Batch Molecular Weight: 425.52
Physical Appearance: Off White solid
Solubility: DMSO to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.27	4.5	9.87
Found	59.34	4.49	9.88

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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CAS Number: 817635-93-1

IUPAC Name: N-[[[4-[[[(Phenylmethyl)amino]sulfonyl]phenyl]amino]thioxomethyl]benzamide

Description:

Multidrug resistance protein (MRP) 4 inhibitor. Sensitizes MRP4-overexpressing cells to the anticancer agent 6-Mercaptopurine (Cat. No. 4103; 6-MP) (IC₅₀ values are 14.11 and 6.06 μM in the absence and presence of compound, respectively). Increases accumulation of 6-MP in MRP4-overexpressing cells.

Physical and Chemical Properties:

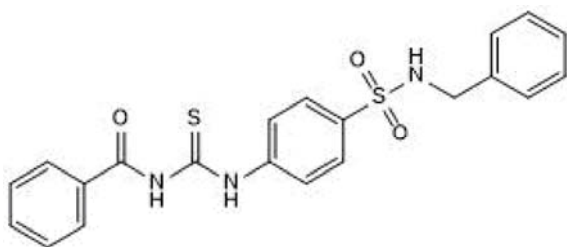
Batch Molecular Formula: C₂₁H₁₉N₃O₃S₂

Batch Molecular Weight: 425.52

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Chen et al (2018) Discovery of novel multidrug resistance protein 4 (MRP4) inhibitors as active agents reducing resistance to anticancer drug 6-Mercaptopurine (6-MP) by structure and ligand-based virtual screening. *PLoS One* **13** e0205175. PMID: 30321196.

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