

Certificate of Analysis

Product Name: Kobe 0065

Catalog No.: 5475

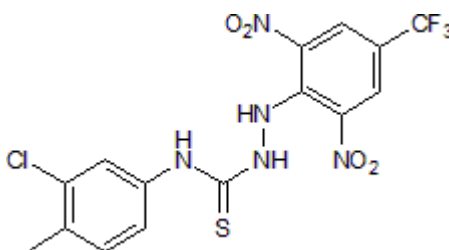
Batch No.: 1

CAS Number: 436133-68-5

IUPAC Name: *N*-(3-Chloro-4-methylphenyl)-2-[2,6-dinitro-4-(trifluoromethyl)phenyl]hydrazinecarbothioamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₅ H ₁₁ ClF ₃ N ₅ O ₄ S
Batch Molecular Weight:	449.79
Physical Appearance:	Cream solid
Solubility:	ethanol to 10 mM with gentle warming water to 5 mM with gentle warming
Storage:	Store at +4°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.26 (5% MeOH/DCM)
HPLC:	Shows 98.6% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

Microanalysis:	Carbon Hydrogen Nitrogen			
	Theoretical	40.05	2.46	15.57
	Found	39.89	2.37	15.59

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

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Description:

H-Ras-cRaf1 interaction inhibitor; inhibits Raf signaling. Selectively attenuates proliferation and induces apoptosis of cancer cells harboring Ras oncogenes. Reduces growth of K-Ras mutant SW480 colon carcinoma cell xenografts in mice. Orally active.

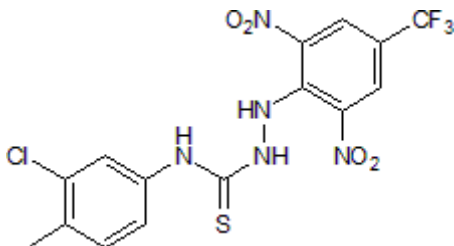
Physical and Chemical Properties:

Batch Molecular Formula: C₁₅H₁₁ClF₃N₅O₄S

Batch Molecular Weight: 449.79

Physical Appearance: Cream solid

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

ethanol to 10 mM with gentle warming
water to 5 mM with gentle warming

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:

Shima et al (2013) *In silico* discovery of small-molecule Ras inhibitors that display antitumor activity by blocking the Ras-effector interaction. *Proc.Natl.Acad.Sci.U.S.A.* **110** 8182. PMID: 23630290.

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