

Certificate of Analysis

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Product Name: 1A-116

Catalog No.: 6701

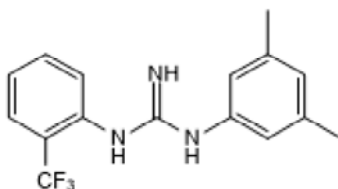
Batch No.: 1

CAS Number: 1430208-73-3

IUPAC Name: *N*-(3,5-Dimethylphenyl)-*N'*-[2-(trifluoromethyl)phenyl]guanidine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₆F₃N₃
Batch Molecular Weight: 307.31
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.53	5.25	13.67
Found	62.42	5.27	13.64

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

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Description:

Rac1 inhibitor. Reduces intracellular Rac1-GTP levels and blocks Rac1-P-Rex1 interaction in vitro. Exhibits no effect on GTPase activity of closely related Cdc42. Displays antiproliferative, anti-invasive and pro-apoptotic activity in several cancer cell lines. Exhibits antimetastatic activity in vivo. Also restores antiproliferative effects of Tamoxifen (Cat. No. 6342) in resistant breast cancer cell.

Physical and Chemical Properties:

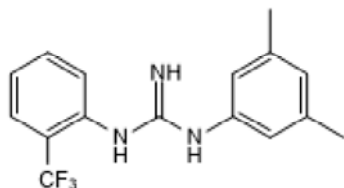
Batch Molecular Formula: C₁₆H₁₆F₃N₃

Batch Molecular Weight: 307.31

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 100 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.

Licensing Information:

Sold under license from Romikin S.A.

References:

Cabrera et al (2017) Pharmacological Rac1 inhibitors with selective apoptotic activity in human acute leukemic cell lines. *Oncotarget*. **8** 98509. PMID: 29228706.

Gonzalez et al (2017) Pharmacological inhibition of Rac1-PAK1 axis restores tamoxifen sensitivity in human resistant breast cancer cells. *Cell Signal*. **30** 154. PMID: 27939839.

Cardama et al (2014) Preclinical development of novel Rac1-GEF signaling inhibitors using a rational design approach in highly aggressive breast cancer cell lines. *Anticancer Agents Med.Chem*. **14** 840. PMID: 24066799.

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