

Product Name: RG 102240

Catalog No.: 5761

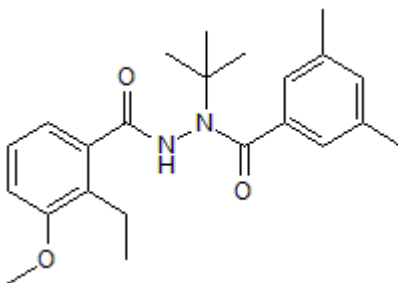
Batch No.: 1

CAS Number: 162326-49-0

IUPAC Name: 2-Ethyl-3-methoxybenzoic acid 2-(3,5-dimethylbenzoyl)-2-(1,1-dimethylethyl)hydrazide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₃₀N₂O₃
Batch Molecular Weight: 382.5
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.53 (Ethyl acetate:Petroleum ether [3:7])
HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	72.22	7.91	7.32
Found	72.31	8.04	7.26

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

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Description:

Gene switch ligand. Transcription inducer for use in inducible gene expression systems. Does not cause significant changes in endogenous gene expression in HEK cells.

Physical and Chemical Properties:

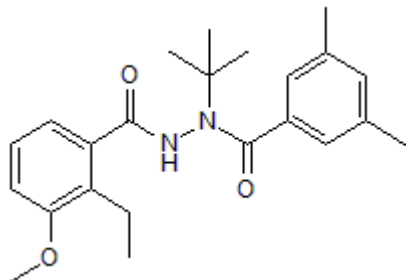
Batch Molecular Formula: C₂₃H₃₀N₂O₃

Batch Molecular Weight: 382.5

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.

References:

Lapenna et al (2009) Semi-synthetic ecdysteroids as gene-switch actuators: synthesis, structure-activity relationships, and prospective ADME properties. *ChemMedChem* **4** 55. PMID: 19065574.

Panguluri et al (2007) Effect of ecdysone receptor gene switch ligands on endogenous gene expression in 293 cells. *FEBS Journal* **274** 5669. PMID: 17922837.

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