

Certificate of Analysis

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Product Name: AEG 3482

Catalog No.: 2651

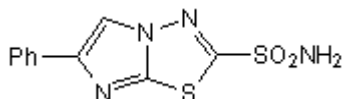
Batch No.: 1

CAS Number: 63735-71-7

IUPAC Name: 6-Phenylimidazo[2,1-b]-1,3,4-thiadiazole-2-sulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₈N₄O₂S₂
Batch Molecular Weight: 284.83
Physical Appearance: Light yellow solid
Solubility: DMSO to 100 mM
ethanol to 5 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.8 (Ethyl acetate)
Melting Point: Between 256 - 258°C
HPLC: Shows >99.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	42.85	2.88	19.99
Found	42.94	2.79	19.74

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

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Description:

Inhibitor of c-jun N-terminal kinase (JNK) signaling. Binds Hsp90 and facilitates HSF1 release, induces expression of Hsp70, which in turn blocks JNK activation and JNK-dependent apoptosis. Antiapoptotic; inhibits NGF withdrawal-induced death in SCG neurons ($EC_{50} = 20 \mu\text{M}$).

Physical and Chemical Properties:

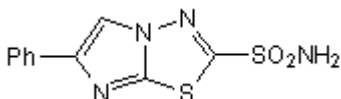
Batch Molecular Formula: $\text{C}_{10}\text{H}_8\text{N}_4\text{O}_2\text{S}_2$

Batch Molecular Weight: 284.83

Physical Appearance: Light yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 5 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:

Gallo (2006) Targeting HSP90 to halt neurodegeneration. *Chem.Biol.* **13** 115. PMID: 16492558.

Salehi et al (2006) AEG3482 is an antiapoptotic compound that inhibits Jun kinase activity and cell death through induced expression of heat shock protein 70. *Chem.Biol.* **13** 213. PMID: 16492569.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956