

Product Name: L-651,582

Catalog No.: 3086

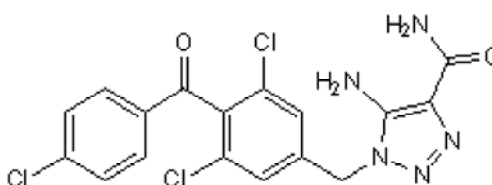
Batch No.: 2

CAS Number: 99519-84-3

IUPAC Name: 5-Amino-1-[[3,5-dichloro-4-(4-chlorobenzoyl)phenyl]methyl]-1*H*-1,2,3-triazole-4-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₂Cl₃N₅O₂
Batch Molecular Weight: 424.67
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.19 (Chloroform:Methanol [9:1])
HPLC: Shows 98.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	48.08	2.85	16.48
Found	48.13	2.94	16.33

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

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Description:

Orally active Ca²⁺ channel blocker; inhibits K⁺- and carbachol-stimulated Ca²⁺ influx (IC₅₀ values are 500 and 935 nM respectively). Exhibits antiproliferative, antiangiogenic and antimetastatic activity in vivo and displays selectivity towards numerous mismatch repair-deficient tumor cell lines in vitro.

Physical and Chemical Properties:

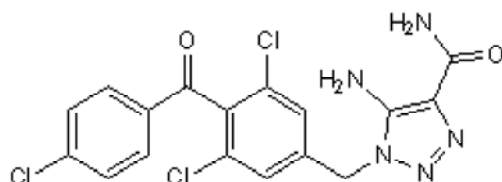
Batch Molecular Formula: C₁₇H₁₂Cl₃N₅O₂

Batch Molecular Weight: 424.67

Physical Appearance: Off-white solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO 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:

Yang et al (2008) Selective sensitivity to carboxamidotriazole by human tumor cell lines with DNA mismatch repair deficiency. *Int.J.Cancer.* **123** 258. PMID: 18464258.

Felder et al (1991) The antiproliferative and antimetastatic compound L651582 inhibits muscarinic acetylcholine receptor-stimulated calcium influx and arachidonic acid release. *J.Pharm.Exp.Ther.* **257** 967.

Hupe et al (1991) The inhibition of receptor-mediated and voltage-dependent calcium entry by the antiproliferative L-651,582. *J.Biol.Chem.* **266** 10136. PMID: 1645340.

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