

Product Name: PD 90780

Catalog No.: 5101

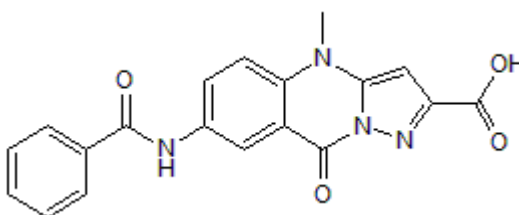
Batch No.: 1

CAS Number: 77422-99-2

IUPAC Name: 7-(Benzoylamino)-4,9-dihydro-4-methyl-9-oxo-pyrazolo[5,1-*b*]quinazoline-2-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₄N₄O₄·H₂O
Batch Molecular Weight: 380.36
Physical Appearance: Pale yellow solid
Solubility: 1eq. NaOH to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.72 (Dichloromethane:Methanol:Ammonia soln. [1:1:0.1])
HPLC: Shows >99% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60	4.24	14.73
Found	60.2	3.85	14.59

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

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Description:

A nonpeptide inhibitor of NGF binding to p75^{NTR} (IC₅₀ ~ 1 μM in CHO cells); binds NGF, not p75^{NTR}. Affinity maybe altered by the presence of TrkA receptors. Neuroprotective.

Physical and Chemical Properties:

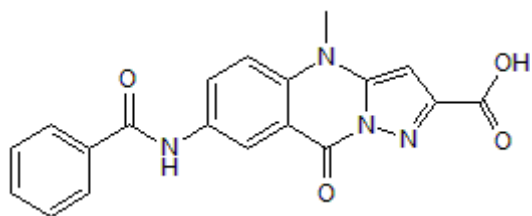
Batch Molecular Formula: C₁₉H₁₄N₄O₄.H₂O

Batch Molecular Weight: 380.36

Physical Appearance: Pale yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

1eq. NaOH to 20 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:

Colquhoun et al (2004) Differential activity of the nerve growth factor (NGF) antagonist PD90780 [7-(benzoylamino)-4,9-dihydro-4-methyl-9-oxo-pyrazolo[5,1-*b*]quinazoline-2-carboxylic acid] suggests altered NGF-p75^{NTR} interactions in the presence of TrkA. *J.Pharmacol.Exp.Ther.* **310** 505. PMID: 15051797.

Longo et al (2008) Small molecule modulation of p75 neurotrophin receptor functions. *CNS Neurol.Disord.Drug Targets* **7** 63. PMID: 18289033.

Eibl et al (2012) Structural, biological, and pharmacological strategies for the inhibition of nerve growth factor. *Neurochem.Int.* **61** 1266. PMID: 23103525.

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