

Product Name: AMG PERK 44

Catalog No.: 5517

Batch No.: 2

CAS Number: 1883548-84-2

IUPAC Name: 4-[2-Amino-4-methyl-3-(2-methyl-6-quinolinyl)benzoyl]-1,2-dihydro-1-methyl-2,5-diphenyl-3H-pyrazol-3-one hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₄H₂₈N₄O₂.HCl.1³/₄H₂O

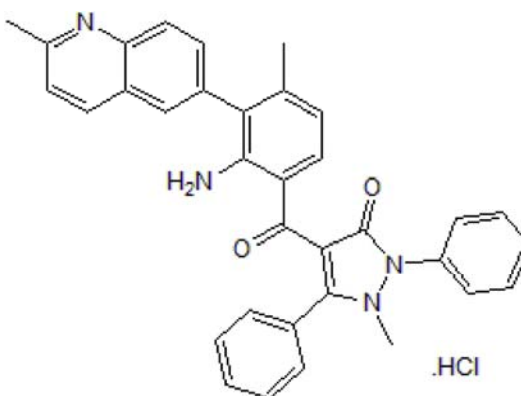
Batch Molecular Weight: 592.59

Physical Appearance: Yellow solid

Solubility: DMSO to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	68.91	5.53	9.45
Found	68.59	5.43	9.32

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Description:

Potent and selective PERK inhibitor (IC₅₀ = 6 nM). Exhibits >160-fold selectivity for PERK over B-Raf and GCN2, as well as a panel of 387 other kinases. Orally bioavailable.

Physical and Chemical Properties:

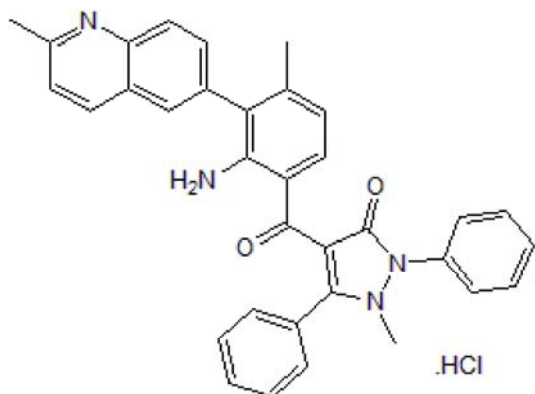
Batch Molecular Formula: C₃₄H₂₈N₄O₂.HCl.1¼H₂O

Batch Molecular Weight: 592.59

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Smith *et al* (2015) Discovery of 1H-pyrazol-3(2H)-ones as potent and selective inhibitors of protein kinase R-like endoplasmic reticulum kinase (PERK). *J.Med.Chem.* **58** 1426. PMID: 25587754.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO 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.

Licensing Information:

By permission of the authors

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