

Product Name: KS 176

Catalog No.: 4169

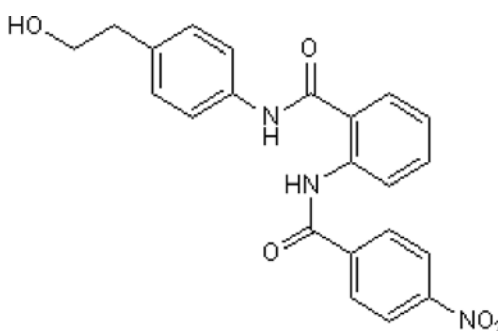
Batch No.: 1

CAS Number: 1253452-78-6

IUPAC Name: *N*-[4-(2-Hydroxyethyl)phenyl]-2-[(4-nitrobenzoyl)amino]benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₁₉N₃O₅
Batch Molecular Weight: 405.4
Physical Appearance: Off-white solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.6 (Ethyl acetate)
HPLC: Shows 98.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.18	4.72	10.37
Found	65	4.69	10.51

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

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Description:

Selective inhibitor of the breast cancer resistance protein (BCRP) multidrug transporter (IC₅₀ values are 0.59 and 1.39 μM in Pheo A and Hoechst 33342 assays respectively). Displays no inhibitory activity against P-gp or MRP1.

Physical and Chemical Properties:

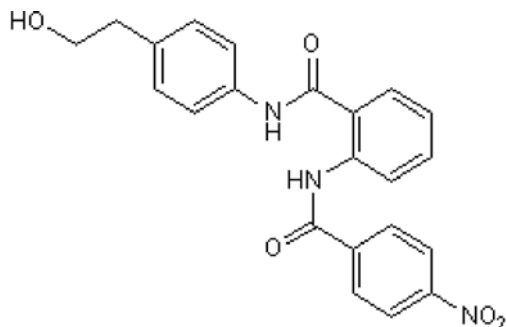
Batch Molecular Formula: C₂₂H₁₉N₃O₅

Batch Molecular Weight: 405.4

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:

Pick *et al* (2010) Specific inhibitors of the breast cancer resistance protein (BCRP). *ChemMedChem* 5 1498. PMID: 20632361.

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