

Certificate of Analysis

Product Name: A 1120

Catalog No.: 3793

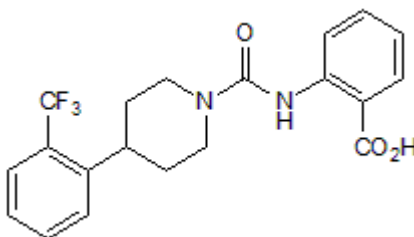
Batch No.: 2

CAS Number: 1152782-19-8

IUPAC Name: 2-(4-(2-(Trifluoromethyl)phenyl)piperidine-1-carboxamido)benzoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₉F₃N₂O₃
Batch Molecular Weight: 392.37
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 25 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.45 (Ethyl acetate:Petroleum ether [3:1])
HPLC: Shows >99.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.22	4.88	7.14
Found	61.32	4.89	7.04

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

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Description:

High affinity retinol-binding protein 4 (RBP4) ligand ($K_i = 8.3$ nM); non-retinoid. Selective against a range of different cellular targets. As efficacious as fenretinide (Cat. No. 1396) in the reduction of serum RBP4 and retinol. Displaces transthyretin (TTR) from RBP4-TTR complexes.

Physical and Chemical Properties:

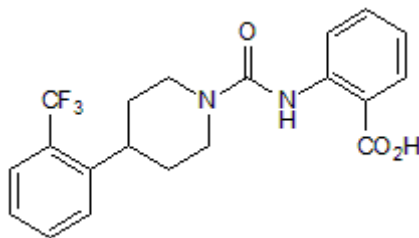
Batch Molecular Formula: $C_{20}H_{19}F_3N_2O_3$

Batch Molecular Weight: 392.37

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Manolescu et al (2009) All-trans retinoic acid lowers serum retinol-binding protein 4 concentrations and increases insulin sensitivity in diabetic mice. *J.Nutr.* **140** 311. PMID: 20032483.

Motani et al (2009) Identification and characterization of a non-retinoid ligand for retinol-binding protein 4 which lowers serum retinol-binding protein 4 levels *in vivo*. *J.Biol.Chem.* **284** 7673. PMID: 19147488.

Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 25 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.

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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