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TOCRIS

Print Date: Apr 11th 2025

Certificate of Analysis

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Product Name: **GW 1929 hydrochloride** **Catalog No.: 1664** **Batch No.: 5**

CAS Number: 1217466-21-1

IUPAC Name: *N*-(2-Benzoylphenyl)-*O*-[2-(methyl-2-pyridinylamino)ethyl]-L-tyrosine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{30}H_{29}N_3O_4.HCl.1½H_2O$

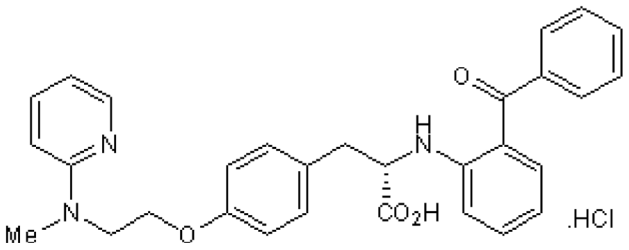
Batch Molecular Weight: 559.05

Physical Appearance: Yellow solid

Solubility: ethanol to 100 mM with gentle warming
DMSO to 100 mM
water to 50 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.25 (Dichloromethane:Methanol [9:1])

HPLC: Shows 99.3% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.45	5.95	7.52
Found	64.28	5.89	7.35

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CAS Number: 1217466-21-1

IUPAC Name: *N*-(2-Benzoylphenyl)-*O*-[2-(methyl-2-pyridinylamino)ethyl]-L-tyrosine hydrochloride

Description:

GW 1929 hydrochloride is a highly selective orally active peroxisome proliferator-activated receptor (PPAR)γ agonist (pEC_{50} values are 8.05, < 4 and < 4 for human PPARγ, PPARα and PPARδ receptors respectively). Decreases glucose, fatty acid and triglyceride levels following oral administration in vivo.

Physical and Chemical Properties:

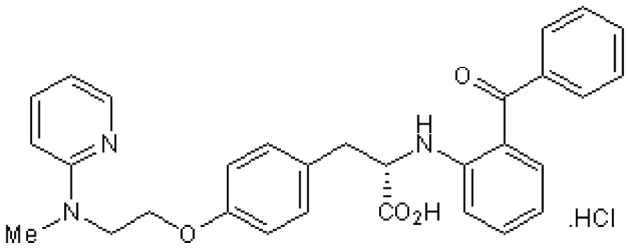
Batch Molecular Formula: $C_{30}H_{29}N_3O_4.HCl.1½H_2O$

Batch Molecular Weight: 559.05

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

ethanol to 100 mM with gentle warming
DMSO to 100 mM
water to 50 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Sold for research purposes under agreement from GlaxoSmithKline

References:

Nugent *et al* (2001) Potentiation of glucose uptake in 3T3-L1 adipocytes by PPARγ agonists is maintained in cells expressing a PPARγ dominant-negative mutant: evidence for selectivity in the downstream responses to PPARγ activation. Mol.Endocrinol. ***15*** 1729. PMID: 11579205.

Way *et al* (2001) Adipose tissue resistin expression is severely suppressed in obesity and stimulated by peroxisome proliferator-activated receptor γ agonists. J.Biol.Chem. ***276*** 25651. PMID: 11373275.

Brown *et al* (1999) A novel N-aryl tyrosine activator of peroxisome proliferator-activated receptor-γ reverses the diabetic phenotype of the Zucker diabetic fatty rat. Diabetes ***48*** 1415. PMID: 10389847.

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