

Product Name: LW 6

Catalog No.: 6322

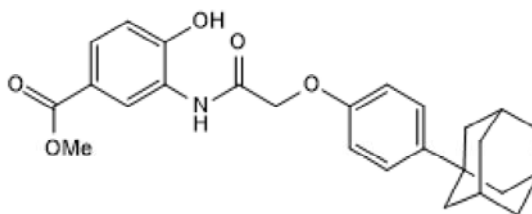
Batch No.: 1

CAS Number: 934593-90-5

IUPAC Name: Methyl 4-hydroxy-3-[[2-(4-tricyclo[3.3.1.1^{3,7}]dec-1-ylphenoxy)acetyl]amino]benzoate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₂₉NO₅
Batch Molecular Weight: 435.51
Physical Appearance: White solid
Solubility: DMSO to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.7	6.71	3.22
Found	71.44	6.79	3.22

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

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Description:

LW 6 is a malate dehydrogenase-2 (MDH2) inhibitor (IC_{50} = 6.3 μ M). Also inhibits HIF-1 α . Prevents accumulation of HIF-1 α in Hep3B cells under hypoxic conditions (IC_{50} = 2.6 μ M) with resulting decrease in expression of HIF-1 α target genes VEGF and EPO. Inhibits proliferation of activated human T cells ex vivo.

Physical and Chemical Properties:

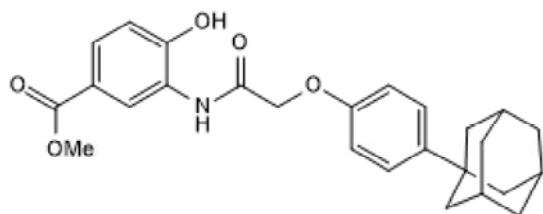
Batch Molecular Formula: C₂₆H₂₉NO₅

Batch Molecular Weight: 435.51

Physical Appearance: White solid

Minimum Purity: \geq 98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO 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. 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:

Ban et al (2016) A novel malate dehydrogenase 2 inhibitor suppresses hypoxia-inducible factor-1 by regulating mitochondrial respiration. PLoS One **9** e0162568. PMID: 27611801.

Eleftheriadis et al (2015) Malate dehydrogenase-2 inhibitor LW6 promotes metabolic adaptations and reduces proliferation and apoptosis in activated human T-cells. Exp.Ther.Med. **5** 1959. PMID: 26640580.

Lee et al (2007) (Aryloxyacetyl amino)benzoic acid analogues: A new class of hypoxia-inducible factor-1 inhibitors. J.Med.Chem. **50** 1675. PMID: 17328532.

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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