

**Product Name:** LY 255283

**Catalog No.:** 2208

**Batch No.:** 3

CAS Number: 117690-79-6

IUPAC Name: 1-[5-Ethyl-2-hydroxy-4-[[6-methyl-6-(1*H*-tetrazol-5-yl)heptyl]oxy]phenyl]ethanone

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>19</sub>H<sub>28</sub>N<sub>4</sub>O<sub>3</sub>·0.33H<sub>2</sub>O

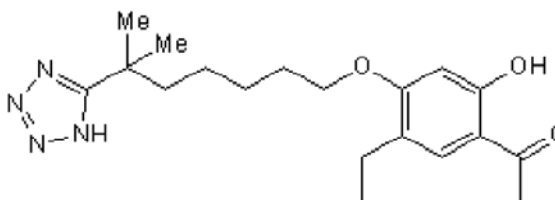
**Batch Molecular Weight:** 366.4651

**Physical Appearance:** Pale yellow solid

**Solubility:** DMSO to 100 mM  
ethanol to 25 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.1 (Ethyl acetate:Hexane [1:1])

**Melting Point:** Between 168 - 170°C(dec)

**HPLC:** Shows 98.1% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	62.28	7.88	15.29
Found	62.45	7.96	14.81

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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

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**Description:**

Selective, competitive antagonist of BLT<sub>2</sub> receptors (IC<sub>50</sub> values are ~ 1 and > 10 μM at human recombinant BLT<sub>2</sub> and BLT<sub>1</sub> receptors respectively). Inhibits LTB<sub>4</sub>-induced contraction of lung parenchyma (pA<sub>2</sub> = 7.2), and reduces LTB<sub>4</sub>-mediated airway obstruction in guinea pigs following i.v. and oral administration. .

**Physical and Chemical Properties:**

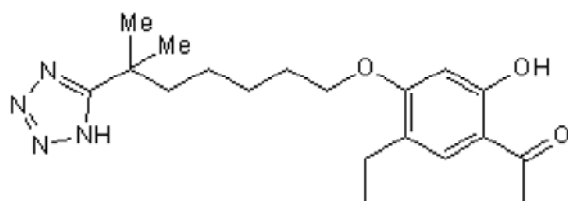
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Batch Molecular Weight: 366.4651

Physical Appearance: Pale yellow solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**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.

**References:**

**Yokomizo *et al*** (2001) Hydroxyeicosanoids bind to and activate the low affinity leukotriene B<sub>4</sub> receptor, BLT<sub>2</sub>. *J.Biol.Chem.* **276** 12454. PMID: 11278893.

**Herron *et al*** (1992) Leukotriene B<sub>4</sub> receptor antagonists: the LY255283 series of hydroxyacetophenones. *J.Med.Chem.* **35** 1818. PMID: 1316967.

**Silbaugh *et al*** (1992) Pulmonary actions of LY255283, a leukotriene B<sub>4</sub> receptor antagonist. *Eur.J.Pharmacol.* **223** 57. PMID: 1335877.

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