

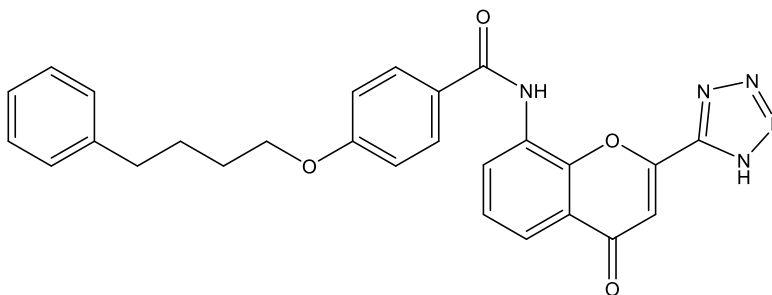
Catalog # 10-2441

Pranlukast

CAS# 103177-37-3

N-[4-oxo-2-(2H-tetrazol-5-yl)chromen-8-yl]-4-(4-phenylbutoxy)benzamide; ONO 1078

Lot # FBA2172



Pranlukast is a selective Leukotriene CysLT1 antagonist¹ and has been used in the treatment of asthma². Pranlukast is also an antagonist of GPR17³ (IC₅₀'s = 10.5nM hGPR17, 31nM rGPR17) and is superior to Montelukast in achieving functional inhibition⁴.

- 1) Nakai et al. (1988), *New Potent Antagonists of Leukotrienes C₄ and D₄. 1. Synthesis and Structure-Activity Relationships*; J.Med.Chem. **31** 84
- 2) Taniguchi et al. (1993), *The effect of an oral leukotriene antagonist, ONO-1078, on allergen-induced immediate bronchoconstriction in asthmatic subjects*; J.Allergy Clin.Immunol. **92** 507
- 3) Ciana et al. (2006), *The orphan receptor GPR17 identified as a new dual uracil nucleotides/cysteinyl-leukotrienes receptor*; EMBO J. **25** 4615
- 4) Hennen et al. (2013), *Decoding Signaling and Function of the Orphan G Protein-Coupled Receptor GPR17 with a Small-Molecule Agonist*; Sci.Signal. **6** ra93

PHYSICAL DATA

Molecular Weight:	481.51
Molecular Formula:	C ₂₇ H ₂₃ N ₅ O ₄
Purity:	98% TLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Store solutions in DMSO at -20°C for up to 1 month.

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