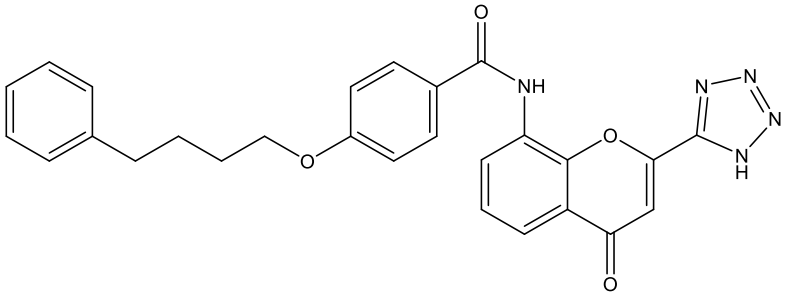
Catalog # 10-2441
Pranlukast

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 antagonist[1] and has been used in the treatment of asthma[2]. Pranlukast is also an inhibitor of GPR17[3] (IC_{50}'s = 10.5nM hGPR17, 31nM rGPR17) and is superior to Montelukast in achieving functional inhibition[4].

1) Nakai et al. (1988), *New Potent Antagonists of Leukotrienes C_4 and D_4. 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:	$C_{27}H_{23}N_5O_4$
Purity:	>98%
	NMR: (Conforms)
Solubility:	Soluble in DMSO (25 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20ºC for up to 1 year from the date of purchase. Store solutions in DMSO at -20ºC for up to 1 month.

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