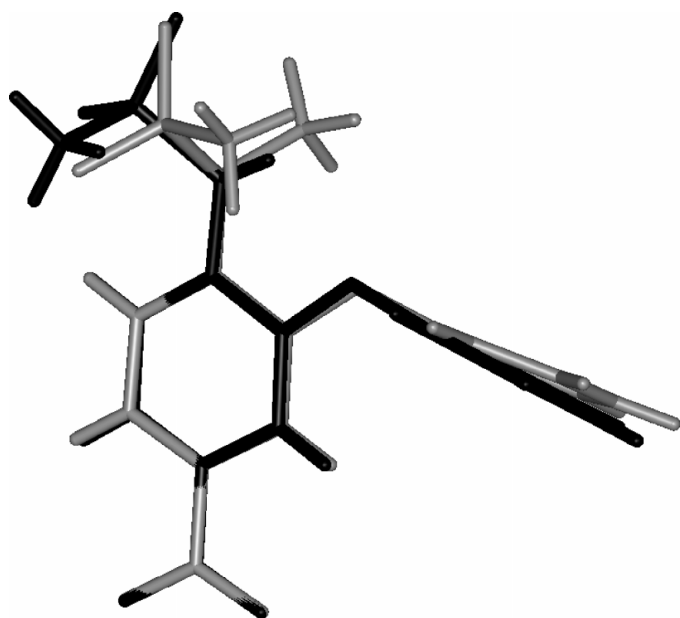


**Figure 1**  
Displacement ellipsoid (50% probability) representation of FJ6.



**Figure 2**  
Superposition of nimesulide (in black) and FJ6 (in grey).

hydrogen bonds with COX-2 residues, increasing the interaction between the inhibitor and the enzyme.

In conclusion, the COX inactivity of the title compound could be partially related to its sulfonamide conformation and electronic properties, different from those observed in nimesulide.

## Experimental

Crystal source: slow evaporation of a solution of FJ6 with methanol at 277 K gave colourless crystals suitable for X-ray analysis.

### Crystal data

$C_{14}H_{14}N_2O_5S$   
 $M_r = 322.33$   
 Monoclinic,  $P2_1/c$   
 $a = 14.522 (1) \text{ \AA}$   
 $b = 10.439 (1) \text{ \AA}$   
 $c = 10.523 (1) \text{ \AA}$   
 $\beta = 109.460 (4)^\circ$   
 $V = 1504.1 (2) \text{ \AA}^3$   
 $Z = 4$

$D_x = 1.423 \text{ Mg m}^{-3}$   
 Cu  $K\alpha$  radiation  
 Cell parameters from 24 reflections  
 $\theta = 32\text{--}40^\circ$   
 $\mu = 2.16 \text{ mm}^{-1}$   
 $T = 293 (2) \text{ K}$   
 Polyhedral, colourless  
 $0.46 \times 0.36 \times 0.15 \text{ mm}$

### Data collection

Enraf–Nonius CAD-4 diffractometer  
 $\omega/\theta$  scans  
 Absorption correction: analytical (de Meulenaer & Tompa, 1965)  
 $T_{\min} = 0.411$ ,  $T_{\max} = 0.743$   
 5119 measured reflections  
 2951 independent reflections  
 2747 reflections with  $I > 2\sigma(I)$

$R_{\text{int}} = 0.034$   
 $\theta_{\text{max}} = 71.9^\circ$   
 $h = -17 \rightarrow 0$   
 $k = -11 \rightarrow 12$   
 $l = -12 \rightarrow 12$   
 3 standard reflections every 200 reflections  
 frequency: 60 min  
 intensity decay: 5%

### Refinement

Refinement on  $F^2$   
 $R[F^2 > 2\sigma(F^2)] = 0.041$   
 $wR(F^2) = 0.118$   
 $S = 1.05$   
 2951 reflections  
 203 parameters  
 H-atom parameters constrained

$w = 1/[\sigma^2(F_o^2) + (0.061P)^2 + 0.373P]$   
 where  $P = (F_o^2 + 2F_c^2)/3$   
 $(\Delta/\sigma)_{\text{max}} = 0.005$   
 $\Delta\rho_{\text{max}} = 0.23 \text{ e \AA}^{-3}$   
 $\Delta\rho_{\text{min}} = -0.31 \text{ e \AA}^{-3}$   
 Extinction correction: *SHELXL97*  
 Extinction coefficient: 0.0139 (8)

Data collection: *CAD-4 EXPRESS* (Enraf–Nonius, 1992); cell refinement: *CAD-4 EXPRESS*; data reduction: *PLATON* (Spek, 2001); program(s) used to solve structure: *SIR97* (Altomare *et al.*, 1999); program(s) used to refine structure: *SHELXL97* (Sheldrick, 1997); molecular graphics: *PLATON*; software used to prepare material for publication: *SHELXL97*.

CM thanks the FRIA for financial support. The authors thank the Facultés Universitaires Notre-Dame de la Paix for the use of the Scientific Computing Facility and the French Community of Belgium for financial support.

## References

- Altomare, A., Burla, M. C., Camalli, M., Cascarano, G., Giacovazzo, C., Guagliardi, A., Moliterni, A. G. G., Polidori, G. & Spagna, R. (1999). *J. Appl. Cryst.* **32**, 115–119.  
 Dupont, L., Pirotte, B., Masereel, B. & Delarge, J. (1995). *Acta Cryst.* **C51**, 507–509.  
 Enraf–Nonius (1992). *CAD-4 EXPRESS*. Version 5.0. Enraf–Nonius, Delft, The Netherlands.  
 Julémont, F. (2001). 10th Forum of Pharmaceutical Sciences, Montréal, May 24–25, 2001.  
 Meulenaer, J. de & Tompa, H. (1965). *Acta Cryst.* **19**, 1014–1018.  
 Sheldrick, G. M. (1997). *SHELXL97*. University of Göttingen, Germany.  
 Spek, A. L. (2001). *PLATON*. Utrecht University, The Netherlands.  
 Tavares, I. A. & Bishai, P. M. (1995). *Arzneimittelforschung*, **10**, 1093–1095.