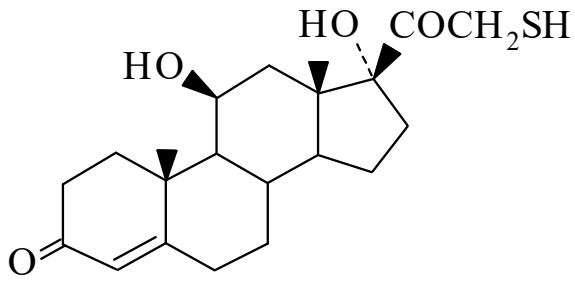
>>**Entry Name: Tixocortol,** BAN, INN
Synonym(s): 11,17-Dihydroxy-21-mercaptopregn-4-ene-3,20-dione, 9CI. Tiocortisol



CAS Registry Number: 61951-99-3

Molecular Formula: $C_{21}H_{30}O_4S$
Molecular Weight: 378.532
Accurate Mass: 378.18648
Percentage Composition: C 66.63%; H 7.99%; O 16.91%; S 8.47%
Use/Importance: Corticosteroid used in labelling receptors
Calculated Log P Data: Log P 1.15 (uncertain value) (calc)
Other Data: Dec. at 220-221°. Stereochem. is (11β,17αOH)

>>**Derivative:** 21-(2,2-Dimethylpropanoyl)
Synonym(s): Tixocortol pivalate, USAN. Pivalone. Rectovalone. Tiovalone. JO 1016

CAS Registry Number: 55560-96-8

Molecular Formula: $C_{26}H_{38}O_5S$
Molecular Weight: 462.649
Accurate Mass: 462.243995
Percentage Composition: C 67.50%; H 8.28%; O 17.29%; S 6.93%
Use/Importance: Antiinflammatory and antiallergic agent
Physical Description: Cryst. (EtOH)
Melting Point: Mp 195-200°
Optical Rotation: $[\alpha]_D^{20}$+145 (c, 1 in dioxan)

>>**Derivative:** 17-Butanoyl
Synonym(s): Butixocort, INN

CAS Registry Number: 120815-74-9

Molecular Formula: $C_{25}H_{36}O_5S$
Molecular Weight: 448.622
Accurate Mass: 448.228345
Percentage Composition: C 66.93%; H 8.09%; O 17.83%; S 7.15%
Use/Importance: Glucocorticoid; antiinflammatory agent
Melting Point: Mp 197-198°
Calculated Log P Data: Log P 2.74 (uncertain value) (calc)

>>**Derivative:** 17-Butanoyl, 21-propanoyl
Synonym(s): Tixocortol butyrate propionate. JO 1222

CAS Registry Number: 98449-05-9
Molecular Formula: $C_{28}H_{40}O_6S$
Molecular Weight: 504.686
Accurate Mass: 504.25456
Percentage Composition: C 66.64%; H 7.99%; O 19.02%; S 6.35%

References:

Ger. Pat., 1974, 2 357 778; *CA*, **82**, 156584, *(pivalate)*
Simons, S.S. *et al.*, *J. Steroid Biochem.*, 1980, **13**, 311, *(synth, props)*
Uphill, P.F. *et al.*, *Arzneim.-Forsch.*, 1981, **31**, 453; 459; 462; 467, *(pivalate)*
Japan. Pat., 1988, 63 303 994; *CA*, **110**, 231953, *(Butixocort)*
Chanoine, F. *et al.*, *Drug Metab. Dispos.*, 1991, **19**, 546, *(JO 1222)*
Martindale, The Extra Pharmacopoeia, 30th edn., Pharmaceutical Press, 1993, 739

https://www.baizuoyan.com - CopyRight ©baizuoyan