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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



4-hydroxy Tolbutamide

Item No. 10008520

CAS Registry No.: 5719-85-7

Formal Name: N-[(butylamino)carbonyl]-4-(hydroxymethyl)-benzenesulfonamide

MF: $C_{12}H_{18}N_2O_4S$

FW: 286.4

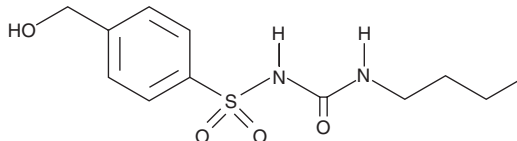
Purity: $\geq 98\%$

UV/Vis.: λ_{max} : 229 nm

Supplied as: A crystalline solid

Storage: $-20^{\circ}C$

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Description

4-hydroxy Tolbutamide is a cytochrome P450 2C8 (CYP2C8) and CYP2C9 metabolite of tolbutamide, a first-generation potassium channel blocker.¹ Tolbutamide 4-hydroxylation is an often used probe reaction in the pharmaceutical industry for the characterization of CYP2C8 and CYP2C9 involvement in the metabolism of clinical drugs²⁻⁴

References

1. Hansen, L.L. and Brosten, K. Quantitative determination of tolbutamide and its metabolites in human plasma and urine by high-performance liquid chromatography and UV detection. *Therapeutic Drug Monitoring* **21**, 664-671 (1999).
2. Yuan, R., Madani, S., Wei, X.-X., *et al.* Evaluation of cytochrome P450 probe substrates commonly used by the pharmaceutical industry to study *in vitro* drug interactions. *Drug Metab. Dispos.* **30(12)**, 1311-1319 (2002).
3. Miners, J.O. and Birkett, D.J. Use of tolbutamide as a substrate probe for human hepatic cytochrome P450 2C9. *Methods in Enzymology* **272**, 139-145 (1996).
4. Testino, S.A., Jr. and Patonay, G. High-throughput inhibition screening of major human cytochrome p450 enzymes using *in vitro* cocktail and liquid chromatography-tandem mass spectrometry. *Journal of Pharmaceutical & Biomedical Analysis* **30**, 1459-1467.

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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