# **PRODUCT** INFORMATION



(+)-N-3-Benzylnirvanol

Item No. 30097

CAS Registry No.:	790676-40-3	
Formal Name:	(5S)-5-ethyl-5-phenyl-3-(phenylmethyl)-	
	2,4-imidazolidinedione	
Synonym:	(S)-N-3-benzyl Nirvanol	$\rightarrow$ $\neq$ $\neq$ 0
MF:	$C_{18}H_{18}N_2O_2$	
FW:	294.4	
Purity:	≥95%	
Supplied as:	A solid	
Storage:	-20°C	
Stability:	≥4 years	
Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.		

## Laboratory Procedures

(+)-N-3-Benzylnirvanol is supplied as a solid. A stock solution may be made by dissolving the (+)-N-3-benzylnirvanol in the solvent of choice, which should be purged with an inert gas. (+)-N-3-Benzylnirvanol is slightly soluble in DMSO and methanol.

## Description

(+)-N-3-Benzylnirvanol is an inhibitor of the cytochrome P450 (CYP) isoform CYP2C19 (K = 0.25  $\mu$ M).<sup>1</sup> It is selective for CYP2C19 over CYP1A2, -2A6, -2C8, -2C9, -2D6, -2E1, and -3A4 at  $1 \,\mu$ M and over CYP2B6 (IC<sub>50</sub> = 58 µM).<sup>1,2</sup>

## References

- 1. Suzuki, H., Kneller, M.B., Haining, R.L., et al. (+)-N-3-Benzyl-nirvanol and (-)-N-3-benzyl-phenobarbital: New potent and selective in vitro inhibitors of CYP2C19. Drug Metab. Dispos. 30(3), 235-239 (2002).
- 2. Walsky, R.L. and Obach, R.S. Verification of the selectivity of (+)N-3-benzylnirvanol as a CYP2C19 inhibitor. Drug Metab. Dispos. 31(3), 343 (2003).

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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