Product Data Sheet

Product Name: Trimebutine
CAS No.: 39133-31-8
Cat. No.: HY-B0380
MWT: 387.47
Formula: C22H29NO5
Purity: >98%

Solubility: DMSO 50 mg/mL; Water <1 mg/mL

Mechanisms: Pathways: GPCR/G protein; Target: Opioid Receptor
Pathways: Neuronal Signaling; Target: Opioid Receptor

Biological Activity:
Trimebutine is a drug with antimuscarinic and weak mu opioid agonist effects.
Target: Opioid Receptor
Trimebutine is an agonist of peripheral mu, kappa and delta opiate receptors, used as spasmylytic
agent for treatment of both acute and chronic abdominal pain [1]. The major product from drug
metabolism of trimebutine in human beings is nor-trimebutine, which comes from removal of one of
the methyl groups attached to nitrogen. Trimebutine exerts its effects in part due to causing a
premature activation of phase III of the migrating motor complex in the digestive tract [2, 3].

References:
[1]. Kaneto, H., M. Takahashi, and J. Watanabe, The opioid receptor selectivity for trimebutine in
[3]. Hiyama, T., et al., Effectiveness of prokinetic agents against diseases external to the

Caution: Not fully tested. For research purposes only
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