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## Product Data Sheet

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Product Name: Trimebutine

Cat. No.: GC10702

**Chemical Properties**

Cas. No. 39133-31-8

Chemical Name [2-(dimethylamino)-2-phenylbutyl] 3,4,5-trimethoxybenzoate

SMILES CCC(COC(=O)C1=CC(=C(C(=C1)OC)OC)OC)(C2=CC=CC=C2)N(C)CFormula C<sub>22</sub>H<sub>29</sub>NO<sub>5</sub> M.Wt 387.47

Solubility ≥ 16.2mg/mL in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

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 spasmolytic 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 isolated tissues experiments and receptor binding studies. J Pharmacobiodyn, 1990. 13(7): p. 448-53.

[2]. Roman, F.J., et al., Pharmacological properties of trimebutine and N-monodesmethyltrimebutine. J Pharmacol Exp Ther, 1999. 289(3): p. 1391-7.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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[3]. Hiyama, T., et al., Effectiveness of prokinetic agents against diseases external to the gastrointestinal tract. J Gastroenterol Hepatol, 2009. 24(4): p. 537-46.

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