

DATA SHEET

Product Name: DTG

Catalog #: CV-1040

Alt: CAS # 97-39-2; 1,3-Di-o-tolylguanidine

Molecular Mass: 239.32

Analysis: >98% (HPLC); NMR (conforms)

Supplied As: White powder

Resuspension: May be dissolved in DMSO (10 mg/ml); or water (50 mg/ml)

Storage: Store desiccated as supplied at -20°C for up to 2 years. Store solutions at -20°C for up to 3 months.

Description: DTG is a high affinity agonist of the sigma (σ) receptor¹ with roughly equal potency against both subtypes (σ 1 and σ 2 IC₅₀'s ~ 30 nM)². Induces heavy alcohol drinking in rats in a model of alcohol use disorder³. Increases BDNF expression and attenuates ischemia/reperfusion-induced learning impairment in mouse models⁴.

References:

1. Weber, E., et al., (1986) Proc. Natl. Acad. Sci. USA, **83**: 8784
2. Scherz, M.W., et al., (1990) J. Med. Chem., **33**: 2421
3. Valenza, M., et al., (2020) Pharmacol. Biochem. Behav., **192**: 172914
4. Xu, Q., et al., (2015) Psychopharmacology (Berl), **232**: 1779

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