**PRODUCT INFORMATION**

**L-(-)-α-Methyldopa**  
*Item No. 21814*

**CAS Registry No.:** 555-30-6  
**Formal Name:** 3-hydroxy-α-methyl-L-tyrosine  
**Synonyms:** Methyldopa, MK-351, NSC 169916  
**MF:** C_{10}H_{13}NO_4  
**FW:** 211.2  
**Purity:** ≥98%  
**UV/Vis.:** λ_{max} 224, 284 nm  
**Supplied as:** A crystalline solid  
**Storage:** Room temperature  
**Stability:** ≥2 years

*Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.*

### Laboratory Procedures

L-(-)-α-Methyldopa is supplied as a crystalline solid. L-(-)-α-Methyldopa is sparingly soluble in water. We do not recommend storing the aqueous solution for more than one day.

### Description

L-(-)-α-Methyldopa is a dopamine (DOPA) decarboxylase inhibitor (ED_{50} = 21.8 mg/kg) and has antihypertensive activity *in vitro* and *in vivo*.\(^1\)\(^-\)\(^3\) L-(-)-α-Methyldopa enters the CNS and is metabolized to form α-methylnorepinephrine which acts as an agonist at α_2-adrenergic receptors.\(^1\)\(^-\)\(^3\) Formulations containing L-(-)-α-methyldopa are used to lower blood pressure.\(^2\) L-(-)-α-Methyldopa also improves trophoblast and endothelial cellular interactions *in vitro*.\(^1\)

### References