

Product Data Sheet

Product Name: Metyrosine

Cat. No.: GC41634

Chemical Properties

Cas. No. 672-87-7

SMILES OC1=CC=C(C[C@](N)(C)C(O)=O)C=C1

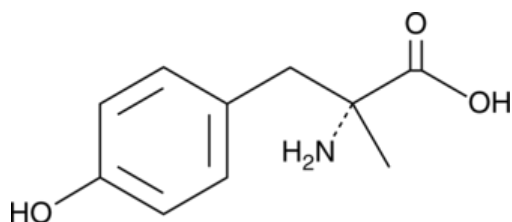
Formula C₁₀H₁₃NO₃ M.Wt 195.2

Solubility DMF: <50 µ g/ml, DMSO: <50 µ g/ml, Ethanol: <50 µ g/ml, PBS (pH 7.2): >2 mg/ml
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

Metyrosine is an inhibitor of tyrosine hydroxylase. In vivo, metyrosine (200 mg/kg) reduces norepinephrine and dopamine levels in rat brain and disrupts conditioned avoidance behavior in a dose-dependent manner. Metyrosine reduces dopamine transporter knockdown-induced hyperactivity and rearing behavior and increases exploratory behavior in a hole board assay in a mouse model of bipolar disorder mania. It reduces hypertension induced by dexamethasone and cyclosporin in rats. Metyrosine also inhibits norepinephrine production and increases plasma levels of leptin in fasted and fed mice.

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

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